

Report 11409
24 February 1998

GENCORP
AEROJET

**Integrated Advanced Microwave Sounding Unit-A
(AMSU-A)**

Performance Verification Report

Initial Comprehensive Performance Test Report

P/N 1331200-2-IT, S/N 105/A2

**Contract No. NAS 5-32314
CDRL 208**

Submitted to:

**National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771**

Submitted by:

**Aerojet
1100 West Hollyvale Street
Azusa, California 91702**

Aerojet

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**METSAT/KLM/AMSU-A2, SYSTEM COMPREHENSIVE
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TEST PROCEDURE**

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1. SCOPE

1.1 Scope. This specification establishes the requirements for the Comprehensive Performance Test (CPT) and Limited Performance Test (LPT) of the Advanced Microwave Sounding Unit-A2 (AMSU-A2), referred to herein as the unit. The unit is defined on Drawing 1331200.

1.2 Test procedure sequence. The sequence in which the several phases of this test procedure shall take place is shown in Figure 1, but the sequence can be in any order.

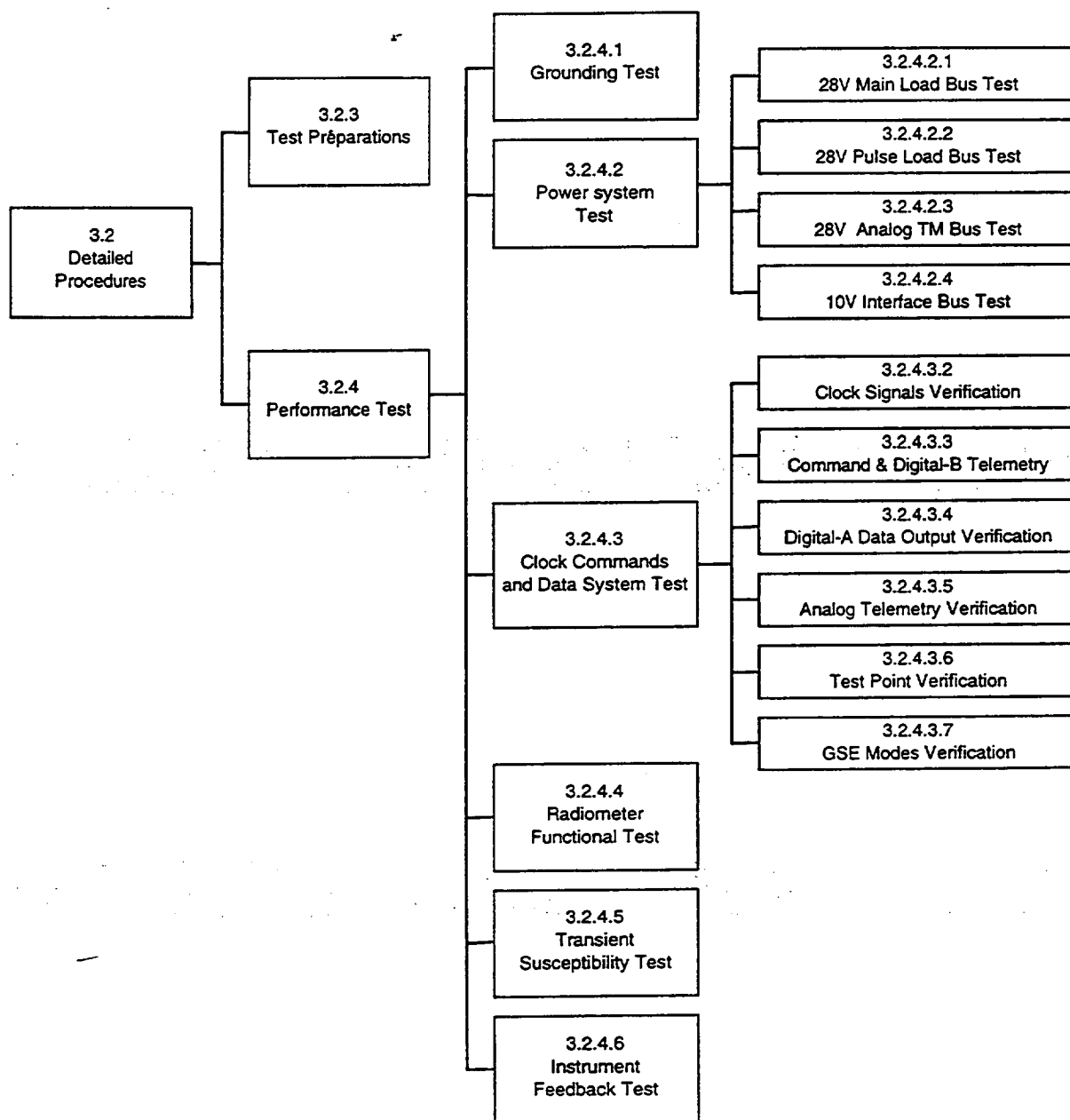


Figure 1. Test Procedure Sequence

AE-26156/4B
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2. APPLICABLE DOCUMENTS

2.1 Government documents. The following documents form a part of this specification to the extent specified. Unless otherwise specified, the issue shown shall apply.

STANDARDS

Military

MIL-STD-45662	Calibration Systems Requirements
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OTHER DOCUMENTS

S-480-79	Performance Assurance Requirements for the EOS/METSAT Integrated Programs Advanced Microwave Sounding Unit-A (AMSU-A) (PAR)
S-480-80	Performance and Operation Specification for the EOS/METSAT Integrated Programs Advanced Microwave Sounding Unit-A (AMSU-A) (POS)
GIIS-3267415	ATN-KLM General Instrument Interface Specification
UIIS-2624483	AMSU-A2 Unique Instrument Interface Specification

(Copies of government documents should be obtained as indicated in the Department of Defense Index of Specification and Standards.)

2.2 Non-Government documents. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issue in effect on the date of testing shall apply.

2.2.1 Aerojet documents

SPECIFICATION

AE-26002/2	Test Procedure, Subsystem, Antenna Drive for AMSU-A2
AE-26157	Special Test Equipment (STE), Operation and Maintenance Manual
AE-26357	Transportation Handling Procedure for the AMSU-A System Integrated Program

STANDARD

STD-2454	Requirements for Electrostatic Discharge Control
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REPORT

10353	Contamination Control Plan for the Advanced Microwave Sounding Unit-A (AMSU-A)
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AE-26156/4B
23 Jun 98

DRAWINGS

1331200	Advanced Microwave Sounding Unit A2 (AMSU-A2)
1335695	Special Test Equipment
1356655	Console Assembly, METSAT and EOS STE

(Copies of Aerojet documents may be obtained from Gencorp Aerojet, CAGE 70143, P.O. Box 296, Azusa, California, 91702-0296).

3. REQUIREMENTS

3.1 General test requirements

3.1.1 Equipment and test facilities. The tests described herein shall be performed at Aerojet under laboratory conditions in an EMI shielded chamber for the first and final CPT. Other tests need not be accomplished in the EMI shielded chamber. The test equipment listed in Table I shall be used when performing the tests. If the specified equipment is not available, the equipment substituted shall provide a measurement accuracy equal to or greater than that of the specified equipment. The AMSU-A Special Test Equipment (STE) shall be used for activation and control of the unit and monitoring of its performance.

3.1.2 Required procedures and operations. The unit shall be subjected to the examinations and tests specified in 3.2.4 and Table II.

Table I. Equipment List

Item	Quantity	Item Description	Mfg.	Model
01	1	Dynamic signal analyzer	Hewlett-Packard	3562A
02	1	Signal Generator	Hewlett-Packard	3314A
03	1	Oscilloscope	Tektronix	2225A
04	1	9-pin breakout box	Aerojet	2536-3743/SK1358702-1
05	1	15-pin breakout box	Aerojet	2536-3744/SK1358703-1
06	2	25-pin breakout box	Aerojet	2336-3746/SK1358704-1
07	1	37-pin breakout box	Aerojet	2536-3745/SK1358705-1
08	1	Lab. general purpose power supply	Hewlett-Packard	6114
09	1	LN ₂ container	Cole	N03726-20
10	1	Spectrum analyzer	Hewlett-Packard	8566B
11	1	STE computer	Aerojet	1336695/SK1356655
12	1	STE interface cable J1	Aerojet	1335758-1
13	1	STE interface cable J2	Aerojet	1335752-1
14	1	STE interface cable J3	Aerojet	1335756-1
15	1	STE interface cable J4	Aerojet	1335755-1
16	1	STE interface cable J5	Aerojet	1335753-1
17	1	STE interface cable J6	Aerojet	1335754-1
18	1	STE interface cable J7	Aerojet	1335757-1
19	1	Current probe amp	Hewlett-Packard	AM503
20	1	Universal counter	Hewlett-Packard	5316A
21	1	Oscilloscope camera	N/A	N/A
22	1	Power supply	Power Designs	3650-S
23	1	Multimeter	Fluke	77
24	1	Plotter	Hewlett-Packard	7475A

* For limited performance test only; item numbers 04, 06, 09, 11 through 18, and 23 are required.

Table II. AMSU-A2 Performance Tests

Paragraph	Test Description	1st CPT	LPT	Sub CPT	Final CPT
3.2.4.1	Grounding	X	X	X	X
3.2.4.2.1.1	+28 Main Load Bus (MLB) Turn On Transient	X			X
3.2.4.2.1.2	+28 MLB Operating Power	X	Note 1	Note 2	X
3.2.4.2.2	+28 Pulse Load Bus (PLB)	X		Note 3	X
3.2.4.2.3	+28 Analog Telemetry Bus (ATB)	X		X	X
3.2.4.2.4	+10 V Interface Bus	X		X	X
3.2.4.3.2	Clock Signals	X			X
3.2.4.3.3	Commands and Digital-B Telemetry	X	X	X	X
3.2.4.3.4	Digital-A Data Output	X	Note 4	Note 4	X
3.2.4.3.5	Analog Telemetry	X	Note 5	Note 5	X
3.2.4.3.6	Test Point	X		X	X
3.2.4.3.7	GSE Mode	X Note 6			
3.2.4.4	Radiometer Functional	X	X	X	X
3.2.4.5	Transient Susceptibility Test	X			
3.2.4.6	Instrument Feedback Test	X			
Notes: 1. 3.2.4.2.5 (Power input test for LPT). 2. At 28V only. 3. 3.2.4.2.2 except 3.2.4.2.2.5. 4. Only full scan. 5. STE only (3.2.4.3.5.2). 6. GSE mode test/verification is not required and is for engineering use only.					

3.1.2.1 Limited performance test (LPT). The Limited Performance Test shall consist of the test procedures specified in the LPT column of Table II.

3.1.2.2 Comprehensive performance test (CPT). Three versions of the Comprehensive Performance Test are identified in Table II. These are applicable for different test stages. The test procedures to be performed for each version are specified in the 1st CPT, Sub CPT, and Final CPT columns of Table II.

3.1.3 Inspection instructions. The following shall apply to all inspections performed under this specification.

- a. **Personnel familiarization:** All personnel directly concerned with the conduct of the inspection shall become familiar with the entire content of this document before beginning the tests. Each step, including all notes, warnings, and cautions, shall be understood thoroughly before starting.
- b. **Referenced documents:** Performance of the tests specified herein may require reference to the documents listed in Section 2. It is recommended that the applicable issues of these documents be available at the time and place of testing.

3.1.4 Test conditions. The following paragraphs shall apply to all testing described in this document.

3.1.4.1 Standard ambient conditions. Unless otherwise specified in a detailed method paragraph, all handling shall be

performed under the following laboratory ambient conditions.

- a. Handling in accordance with AE-26357
- b. Contamination control in accordance with Report 10353
- c. Temperature: $+23 \pm 10^{\circ}\text{C}$
- d. Pressure: 610 to 810 torr
- e. Humidity: $50 \pm 20\%$ (no condensation)
- f. The instrument shall be placed in its protective bag (1338427) when not in use.

3.1.4.2 Test tolerances. The tolerances allowed on test conditions are intended only to provide for accuracy of such items as instrumentation and controls. Conditions shall be as close as possible to the nominal or center values specified, and in no instance shall they exceed the tolerances specified. Unless otherwise specified, the tolerances shall be within $\pm 10\%$.

3.1.4.3 Read-out accuracy. Parameters are specified either as limits or as nominal values with plus-or-minus tolerances. These limits and tolerances shall be regarded as absolute, and the inaccuracies of measuring equipment shall not be interpreted as part of measured values in such a way that out-of-limit measurements may appear in-limit.

3.2 Detailed Procedures

3.2.1 Responsibility for inspection. All tests specified herein shall be performed under the cognizance of Aerojet Quality Assurance.

3.2.2 Monitoring procedures for equipment. Test equipment calibration schedules and procedures shall comply with the requirements of MIL-STD-45662. Before performing examinations and tests in accordance with this procedure, all test equipment to be used shall be verified as being within its current calibration period. Calibration or alignment, necessary for operation of the equipment within the requirements of this document, shall be performed when required.

3.2.3 Test preparation. Perform the following preparations.

3.2.3.1 STE connection. The power sources, signal sources, and loads are provided to the unit under test by the AMSU-A Special Test Equipment (STE) (Drawing 1335695 or 1356655), in accordance with paragraph 5.2 of S-480-80. The STE is automated test equipment controlled by a MicroVax computer. The unit shall be connected to the STE in accordance with AE-26157 and the detailed test procedures in 3.2.4.

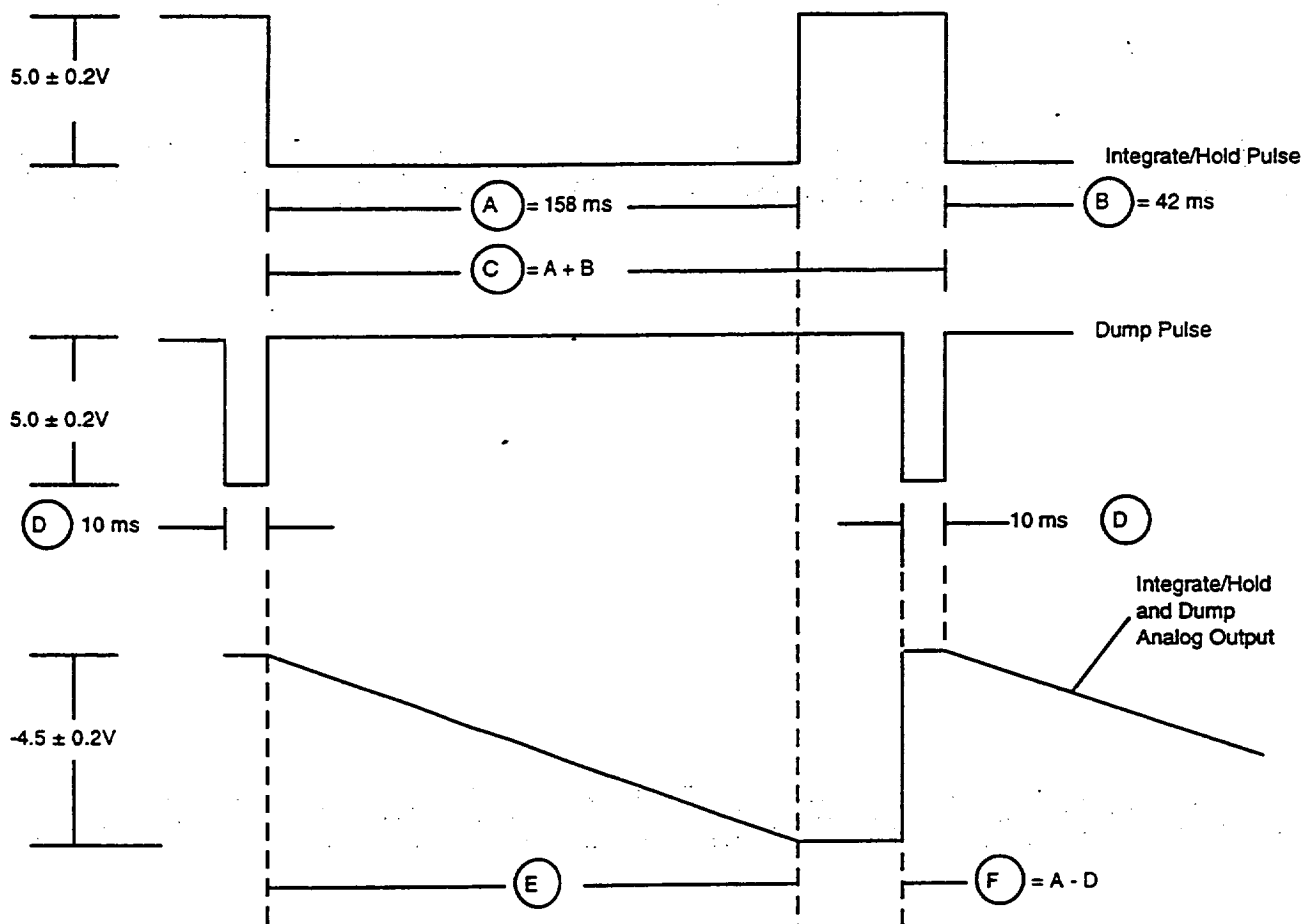
3.2.3.2 Signal sources. Signal sources required during the performance test but not provided by the STE are as follows:

- a. Cold background at LN_2 temperature at room ambient.
- b. $+28 \text{ Vdc} \pm 1 \text{ Vdc}$, 3 Amps.

3.2.3.3 Signal outputs. Signal outputs, except for the test signals at J7, shall be monitored by the STE. The signal outputs at J7 are shown in Figure 2.

3.2.3.4 Test software. AMSU-A2 bonded software shall be used to operate the STE. During initialization of the STE, as specified in AE-26157, the A2 software shall be selected. The bonded software is being selected by the STE computer automatically during initialization of the STE.

3.2.3.5 Initial turn-on. When called for in the individual test procedures, turn on the unit as follows:



NOTE: Timing Tolerances are $\pm 10\%$.

Figure 2. Signal Output at J7

1. Turn on power to STE, initialize STE (per AE-26157 instructions), and turn on AMSU-A2 STE power switches. Adjust +28 V power supply by using DVM to $+28.0 \text{ V} \pm 0.5 \text{ V}$ at STE J1 connector pin No. 1 (+) and pin No. 3 (RTN). Use breakout box at J1 to connect the DVM.
2. Enter the serial number (decimal equivalent of the identification number provided in the UIIS) for the unit under test using AE-26157, if necessary. Verify that the Main Menu is displayed on the STE CRT terminal display. Turn off the AMSU-A2 STE power switches.
3. Connect J1 through J7 to AMSU-A2 unit.
4. Verify that the PWR and SW/TM switches on the STE power distribution unit are ON.
5. On the Main Menu, press the [2] MONITOR ONLY (type the number). The Monitor Only Menu will be displayed, with Block Monitor Data Select options shown in the middle (window) area of the screen.
6. On the Monitor Only Menu, press [14] COMMANDS. The Commands Menu will be displayed in the window area.

7. On the Commands Menu, press [9] MODULE POWER. Wait at least 18 seconds for command execution. This applies power to the unit.
8. Execute commands as necessary to obtain the following configuration:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO [15]
[10] SURVIVAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	YES [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	NO		
POWER [4] ON			

9. Wait at least 18 seconds and observe the commands are acknowledged by STE.
10. Verify that the STE power supply is adjusted to its normal +28.0 Vdc ± 0.5 Vdc operating voltage by using a DVM across J1-1 and J1-3. Use 25-pin breakout box at J1 to connect the DVM.
11. Verify that all breakout box switches are in the closed position.
12. After initial turn-on, execute commands and connect the unit as necessary according to the individual test procedures.

3.2.3.6 Turn-off methods. The unit can be turned off immediately by pressing [9] MODULE POWER = DISCONNECT on the Commands Menu. For a phased shutdown, press [11] MODULE TOTALLY OFF = OFF on the Command Menu or press POWER [4] OFF on any display. When connecting breakout boxes to the unit or STE connectors, verify that the unit power is off and the STE +28V power supply is manually turned off.

✓ **3.2.4 Detailed performance tests.** The comprehensive performance tests for the AMSU-A2 system are to be carried out on the fully assembled and operational unit. The tests to be performed are as follows:

- a. Grounding system test.
- b. Power system test.
- c. Clock commands and data system test.
- d. Radiometer functional test.
- e. Transient susceptibility test.
- f. Instrument feedback test.

✓ **3.2.4.1 Grounding test.** This test provides the verification of the unit grounding requirements of GHS-3267415 Paragraph 3.1.1 and UHS-2624483 paragraph 3.11.

1. Connect breakout boxes to each of the spacecraft interface connectors J1 through J7 as shown in Figure 3. Verify that all connectors are protected with connector savers. Verify STE is not connected to instrument.
2. Measure and record continuity or isolation between the points shown on Test Data Sheet (TDS) 1 (Appendix B, TDS B-1 for LPT).

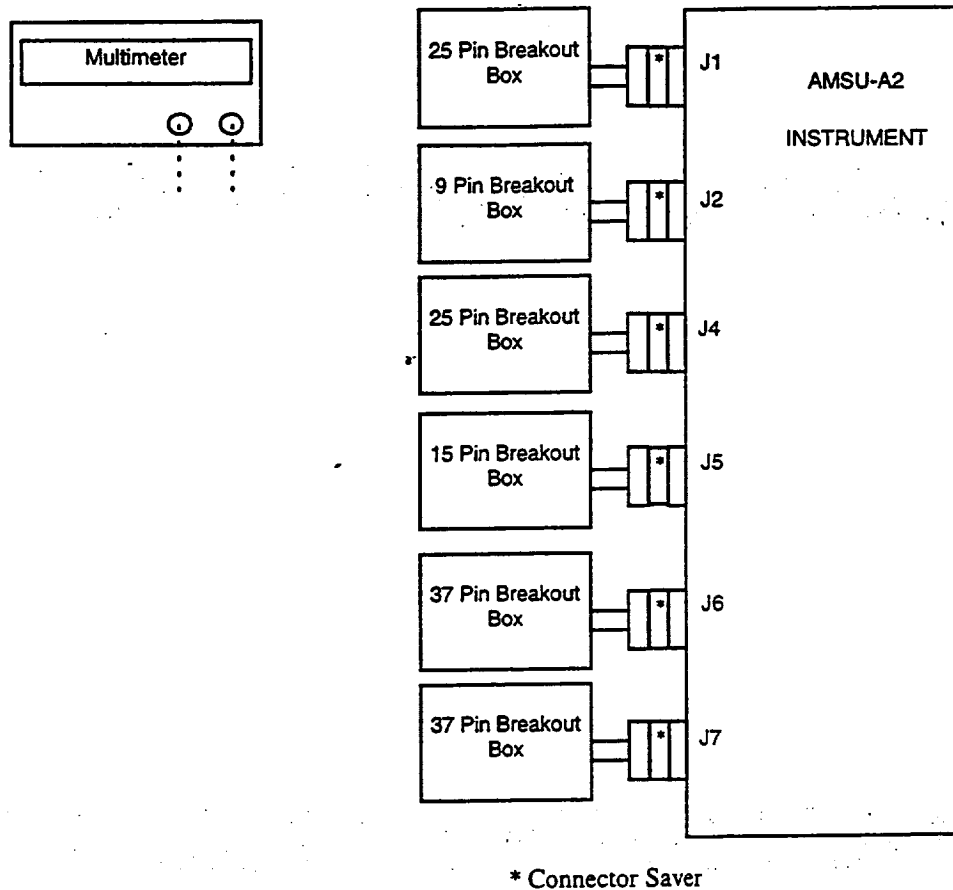


Figure 3. Grounding Test Setup

✓3.2.4.2 **Power system test.** The purpose of this test is to verify the following dc voltage lines:

- a. +28V Main Load Bus (MLB)
- b. +28V Pulse Load Bus (PLB)
- c. +28V Analog Telemetry Bus (ATB)
- d. +10V Interface Bus

✓3.2.4.2.1 **+28V main load bus test**

3.2.4.2.1.1 **+28V MLB during turn on transient.** The +28V MLB turn on transient shall be verified as follows:

1. Configure the unit and test equipment as shown in Figure 4. Verify that switches 1, 2, 14 and 15 of the breakout box are in the OPEN position. Disconnect +28 Vdc external power supply output and adjust the power supply to read $28.56 \text{ Vdc} \pm 0.05 \text{ Vdc}$ on voltmeter No. 1. Connect the power supply output as shown in Figure 4.

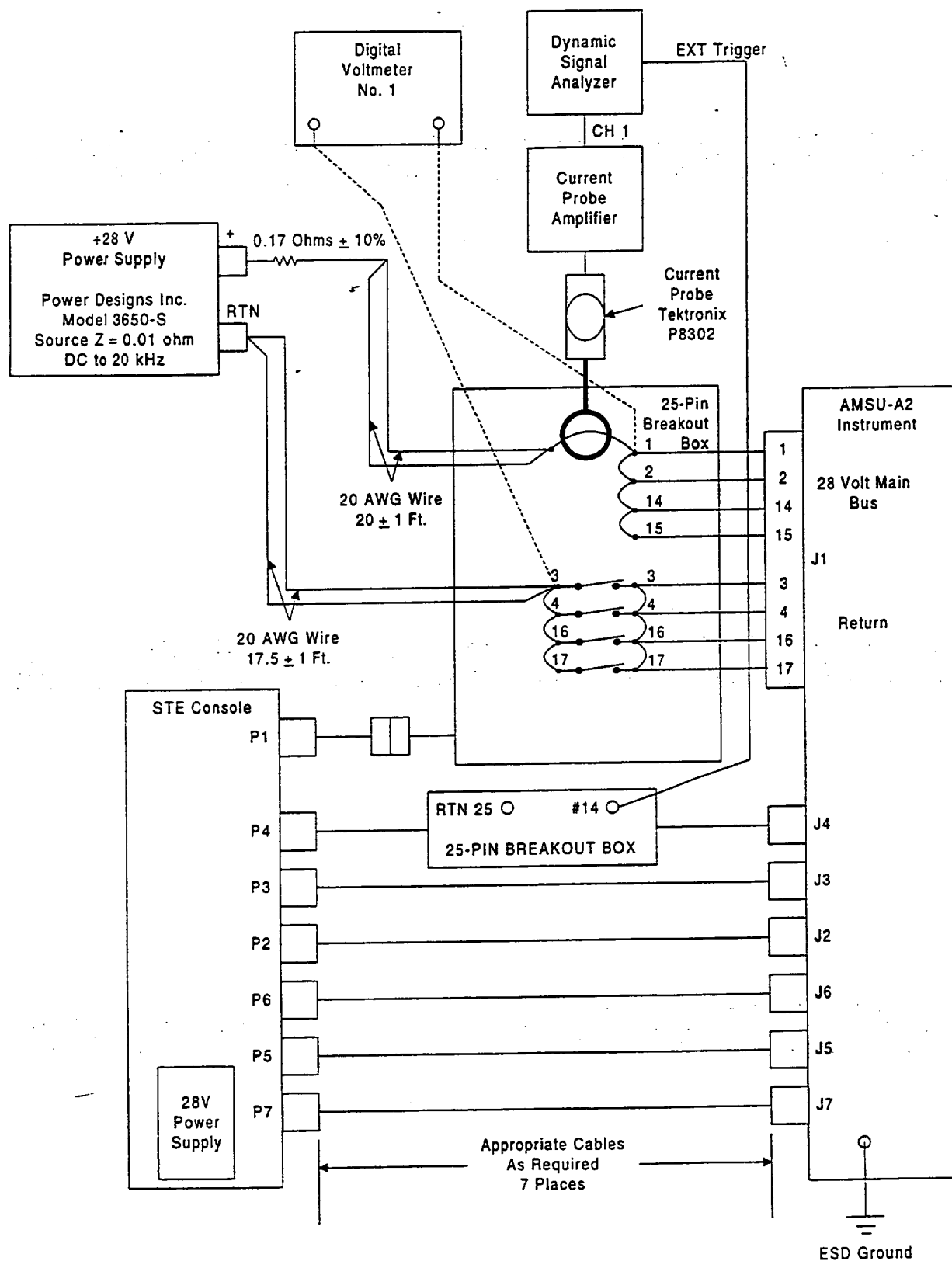


Figure 4. +28V Main Load Bus Verification Setup

2. Configure the dynamic signal analyzer as follows:
 - (a) Time capture mode
 - (b) External trigger
 - (c) Trigger level = 1V
 - (d) Slope = -
 - (e) Time span: zero to 0.2 seconds
 - (f) Scale: (select at test)
 - (g) Freq.: 100kHz
3. Turn the unit ON as described in 3.2.3.5. If necessary, reset/verify the external 28 Vdc power supply to read $28.56 \text{ Vdc} \pm 0.05 \text{ Vdc}$ on voltmeter No. 1.

NOTE

Do not proceed without successful completion of step 3.

4. Turn the unit OFF by executing command [9] MODULE POWER. Confirm the command has been executed on STE display.
5. Turn the unit ON for a second time by executing command [9] MODULE POWER. Confirm the waveform has been captured by the Dynamic Analyzer.
6. Obtain a hard copy from the dynamic analyzer. Expand the scale to obtain the dI/dT , if necessary, and obtain a hard copy of the expanded waveform.

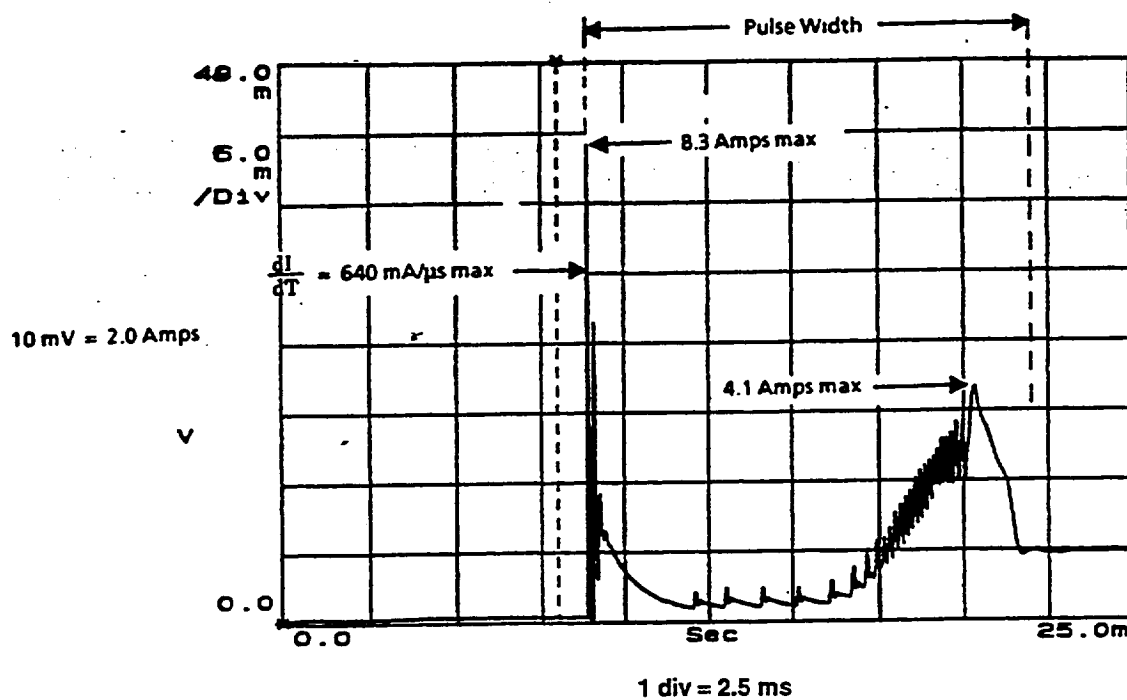
NOTE

This test requires complex set up of the dynamic analyzer. The test can be repeated to obtain a proper waveform.

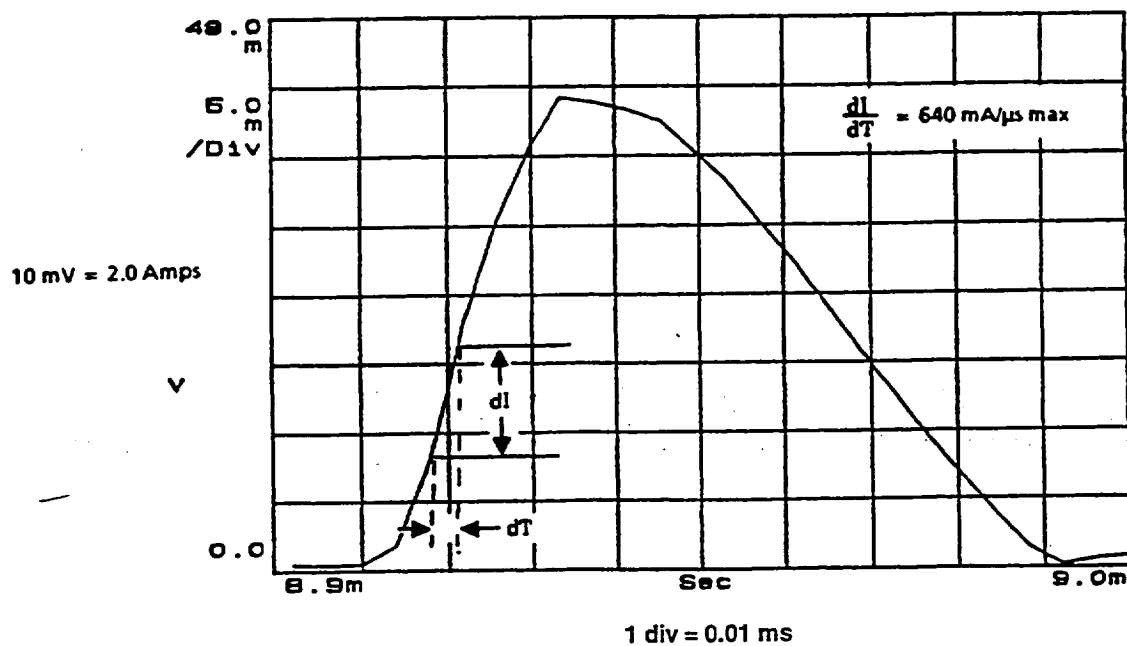
7. From the hard copies obtained in step 6, determine the peak current amplitude, pulse width, and rate of change described in Figures 5 and 6. Record the values on TDS 2 and attach hard copy to data sheet.
8. Reset the dynamic analyzer.
9. While monitoring voltmeter No. 1, adjust the external power supply to read $+27.44 \pm 0.05 \text{ Vdc}$ (see Figure 4) at J1 and repeat steps 2 through 8.
10. Repeat step 9 for $+28.00 \pm 0.05 \text{ Vdc}$. (Perform instrument feedback test of 3.2.4.6.3.2, if required.)

3.2.4.2.1.2 +28V MLB operating power. Measure the steady state current, voltage, and power as follows:

1. Turn off the unit.
2. Insert current meter in positive lead of external power supply.
3. Turn the unit on as indicated in 3.2.3.5.

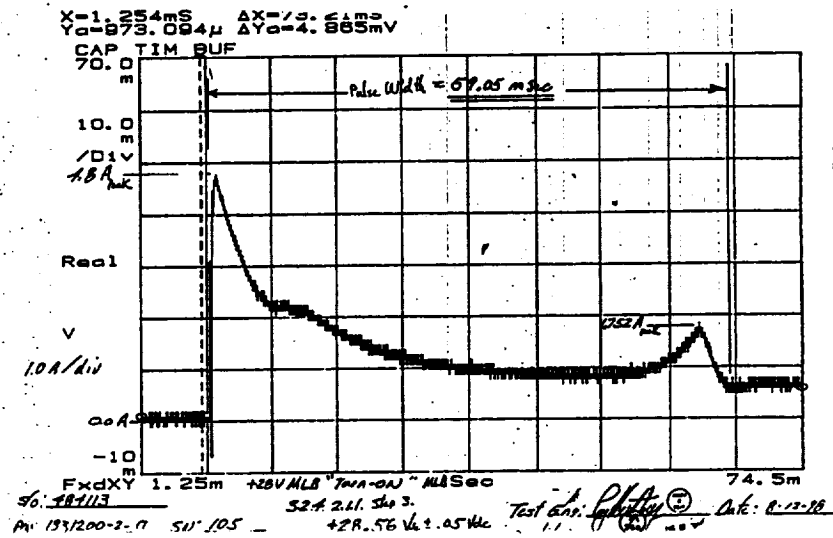


AMSU-A2 (S/N 102) Main Load Bus Worst Case Turn-on Transient at 28.56 Vdc.

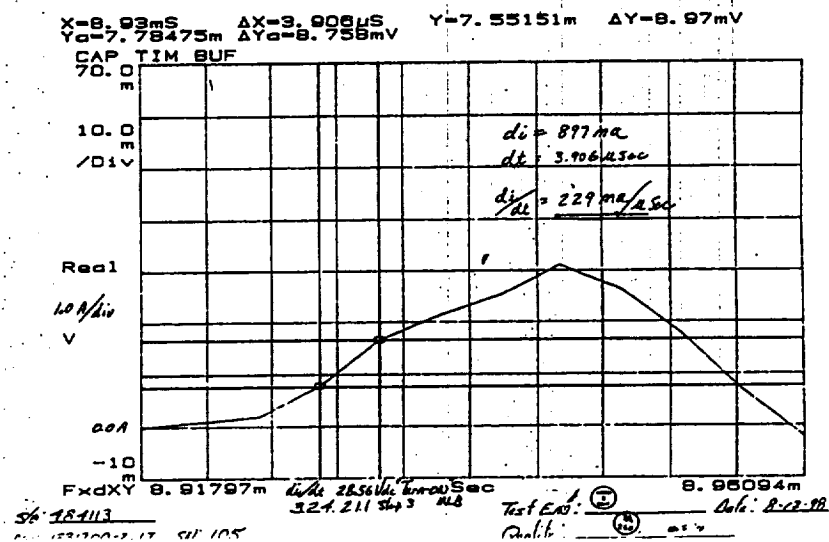


AMSU-A2 (S/N 102) Main Load Bus $\frac{dI}{dT}$ at Worst Case Turn-on Transient at 28.56 Vdc.

Figure 5. +28V Main Bus Load Peak Power for KLM (S/N 102, 103, and 104)



AMSU-A2 (S/N 105) Main Load Bus Worst Case Turn-on Transient at 28.56 Vdc



AMSU-A2 (S/N 105) Main Load Bus $\frac{dI}{dt}$ at Worst Case Turn-on Transient at 28.56 Vdc

Figure 6. +28V Main Bus Load Peak Power for METSAT (S/N 105 and up)

4. While monitoring voltmeter No. 1, adjust the power supply to 27.0 ± 0.1 volts (see Figure 4). Record the voltage displayed on voltmeter no. 1 on TDS 3 (MLB voltage at 27V).
5. Record the operating current on TDS 3 using digital multimeter.
6. Compute the operating power (watts) as explained in TDS 3.
7. Adjust the power supply to 28.0 ± 0.1 volts and record voltage on TDS 3.
8. Record the operating current on TDS 3.
9. Compute the operating power (watts) as explained in TDS 3.
10. Adjust the power supply to 29.0 ± 0.1 volts and record voltage on TDS 3.
11. Record the operating current on TDS 3.
12. Compute the operating power (watts) as explained in TDS 3.
13. Adjust the power supply to 28.0 ± 0.5 Vdc.

3.2.4.2.2 +28V pulse load bus test. The PLB shall be verified during the following intervals:

- a. First two seconds (3.2.4.2.2.1)
- b. From 2 to 4 seconds (3.2.4.2.2.2)
- c. From 4 to 6 seconds (3.2.4.2.2.3)
- d. From 6 to 8 seconds (3.2.4.2.2.4)
- e. PLB turn-on transient (3.2.4.2.2.5)
- f. PLB current in warm cal, cold cal, and nadir modes (3.2.4.2.2.6)

3.2.4.2.2.1 PLB during the first two seconds. The PLB operation, during the first two seconds, shall be verified as follows:

1. Configure the unit and test equipment as indicated in Figure 7. Verify that switches 5, 6, 18 and 19 of the breakout box are in the OPEN position. Disconnect +28 Vdc external power supply output and adjust the power supply to read $28.00 \text{ Vdc} \pm 0.05 \text{ Vdc}$ by using a digital voltmeter. Connect the power supply output as shown in Figure 7.
2. Configure the dynamic signal analyzer as follows:
 - (a) Time capture mode
 - (b) External trigger
 - (c) Trigger level = 1 V
 - (d) Slope = -
 - (e) Time span: zero to two seconds
 - (f) Scale: (select at test)
 - (g) Pre-trigger delay: -0.1 seconds



Figure 7. +28V Pulse Load Verification Setup

3. Turn the unit ON as described in 3.2.3.5. If necessary, reset the external +28 Vdc power supply to read $+28.00 \pm 0.05$ Vdc.
4. Do not proceed without successful completion of step 3.
5. Obtain a hard copy of the signal displayed on the dynamic signal analyzer. Refer to Figure 8 for a typical waveform.
6. From the hard copy obtained, calculate the peak current. Record the peak current and bus current during the integrate/hold, dump (I/H,D) time period (refer to Figure 8) values on TDS 4.

3.2.4.2.2.2 PLB measured from 2 to 4 seconds. The PLB operation, from 2 to 4 seconds, shall be verified as follows:

1. Change the PRE-TRIGGER DELAY setting of the dynamic signal analyzer to 1.9 seconds.
2. Obtain a hard copy of the signal displayed on the dynamic signal analyzer (refer to Figure 8 for typical waveform) and record the peak current and bus current during the integrate/hold, dump (I/H,D) time period (refer to Figure 8) data on TDS 4.

3.2.4.2.2.3 PLB measured from 4 to 6 seconds. The PLB operation, from 4 to 6 seconds, shall be verified as follows:

1. Change the PRE-TRIGGER DELAY setting of the dynamic signal analyzer to 3.9 seconds.
2. Obtain a hard copy of the signal displayed on the dynamic signal analyzer (refer to Figure 8 for typical waveform) and record the peak current and bus current during the integrate/hold, dump (I/H,D) time period (refer to Figure 8) data on TDS 4.

3.2.4.2.2.4 PLB measured from 6 to 8 seconds

1. Change the PRE-TRIGGER DELAY setting of the dynamic signal analyzer to 5.9 seconds.
2. Obtain a hard copy of the signal displayed on the dynamic signal analyzer (refer to Figure 8 for typical waveform) and record the peak current and bus current during the integrate/hold, dump (I/H,D) time period (refer to Figure 8) data on TDS 4.

3.2.4.2.2.5 PLB turn-on transient

1. Configure the unit and test equipment as shown in Figure 7. Verify that switches 5, 6, 18 and 19 of the breakout box are in the OPEN position.
2. Configure the dynamic signal analyzer as follows:
 - (a) Time capture mode
 - (b) External trigger
 - (c) Trigger level = 1V
 - (d) Slope = --
 - (e) Time span: zero to 0.2 seconds
 - (f) Scale: (select at test)
 - (g) Pre-trigger delay: 0.0 seconds

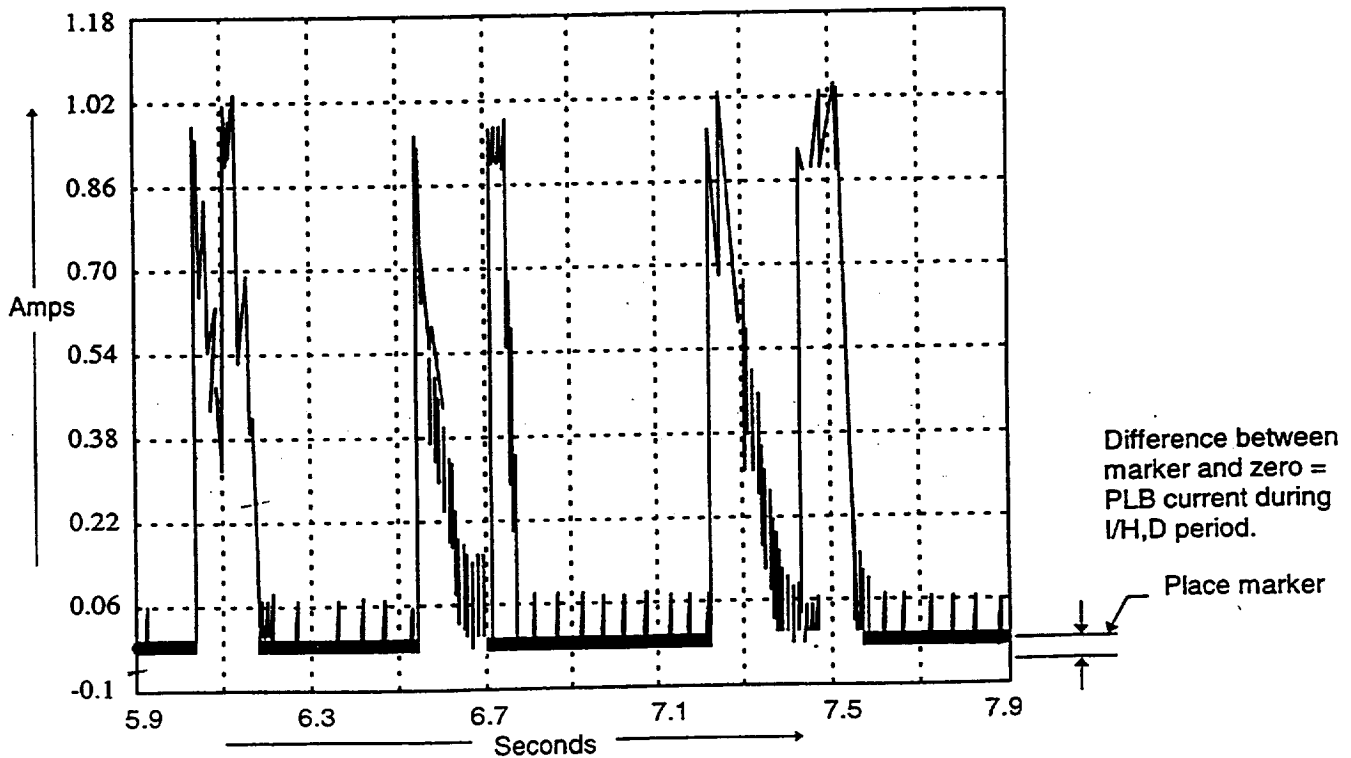
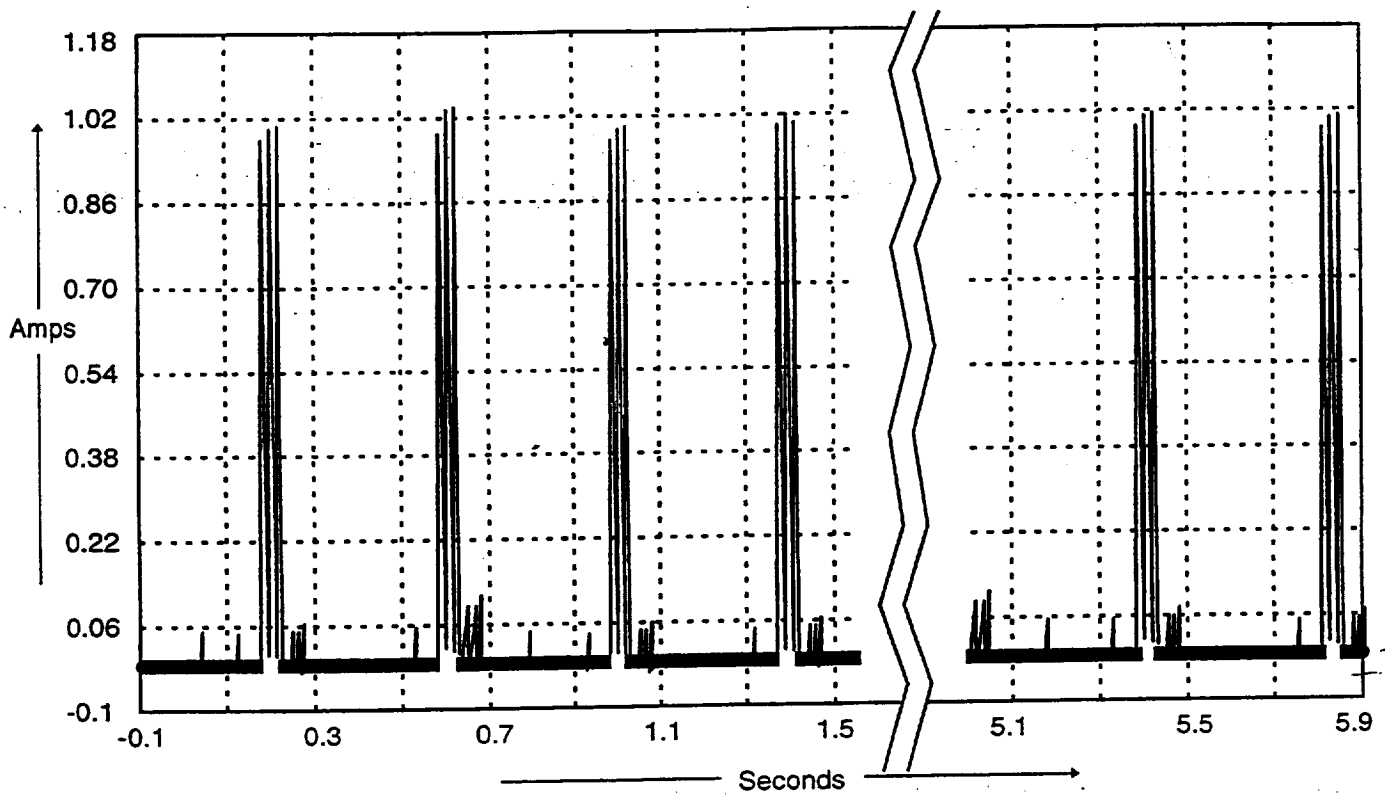


Figure 8. Typical Load Current Waveforms from the +28V Pulse Load Bus

3. Turn the unit on as described in 3.2.3.5.
4. Wait at least 18 seconds until the sending commands are acknowledged by the STE.
5. Turn the unit off by executing the following command: [9] MODULE POWER = DISCONNECT.
6. Turn the unit on by executing: [9] MODULE POWER = CONNECT.
7. Obtain a hard copy from the dynamic analyzer.
8. From the hard copy obtained in step 7, determine the current amplitude and rate of change (dI/dT) described in Figure 9. Expand the scale to obtain dI/dT . Record the values on TDS 4. (Perform instrument feedback test of 3.2.4.6.3.3, if required.)

3.2.4.2.2.6 PLB current in warm cal, cold cal, and nadir modes. PLB current shall be tested as follows:

1. Place the unit in warm cal mode.
2. Measure and record PLB steady state current on TDS 4.
3. Place the unit in cold cal mode and repeat step 2.
4. Place the unit in nadir mode and repeat step 2.

3.2.4.2.3 +28V analog telemetry bus test. The ATB operation shall be tested as follows:

1. Configure the unit and test equipment as indicated in Figure 10.
2. Turn the unit ON as described in 3.2.3.5.

NOTE

Do not proceed without successful completion of step 2.

3. Measure the +28 ATB voltage and current and record on TDS 5.
4. Calculate power and record on TDS 5.
5. Turn the unit OFF by executing command [11] MODULE TOTALLY OFF.

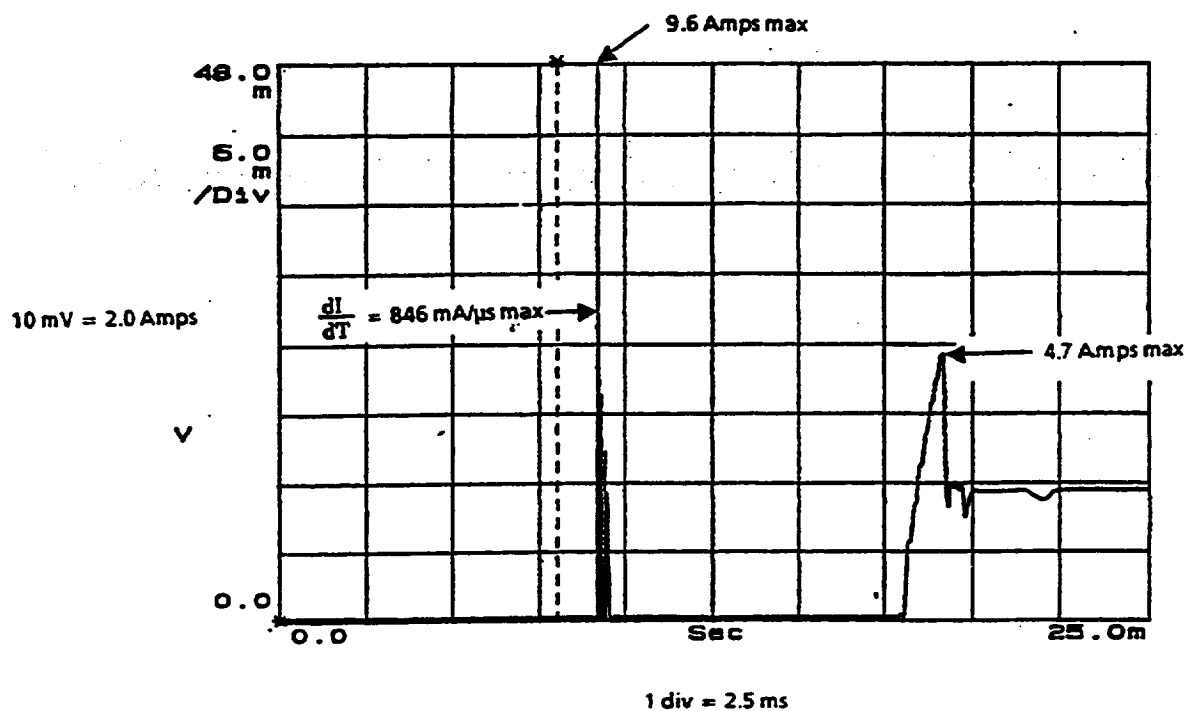
3.2.4.2.4 +10 volt interface bus test. Operation of the +10 volt interface bus shall be tested as follows:

1. Configure the unit and test equipment as indicated in Figure 11.
2. Turn the unit ON as described in 3.2.3.5.

NOTE

Do not proceed without successful completion of step 2.

3. Measure the +10 bus voltage and current and record on TDS 6.



AMSU-A2 Pulse Load Bus Turn-on Transient

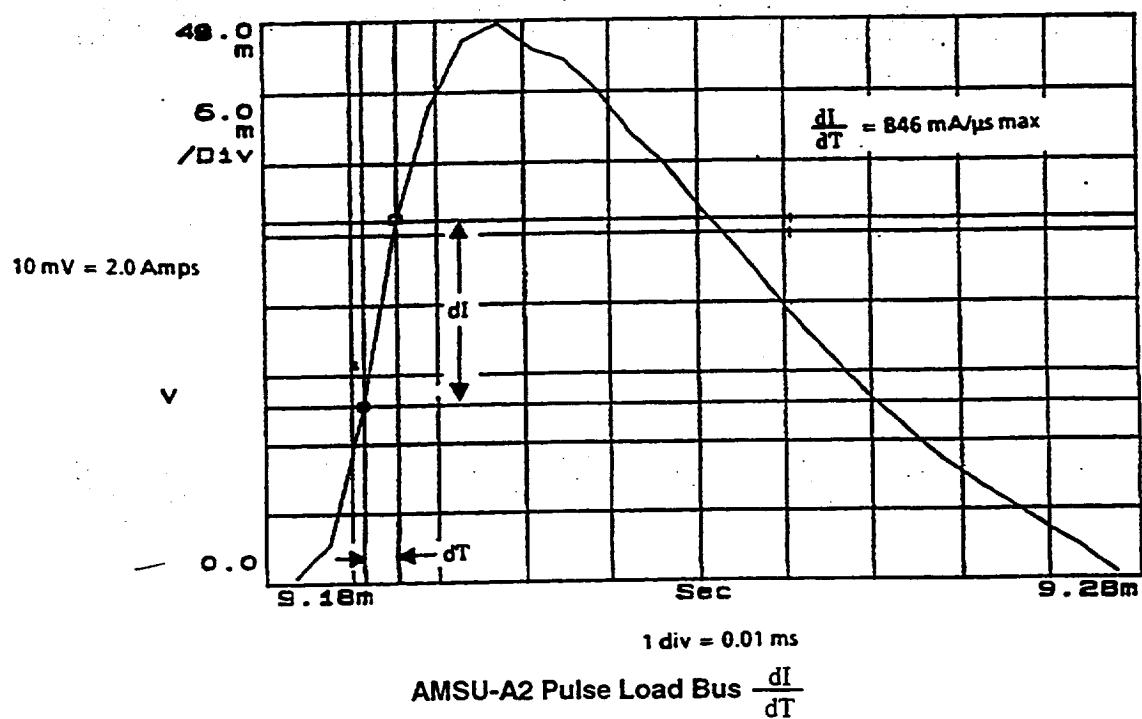
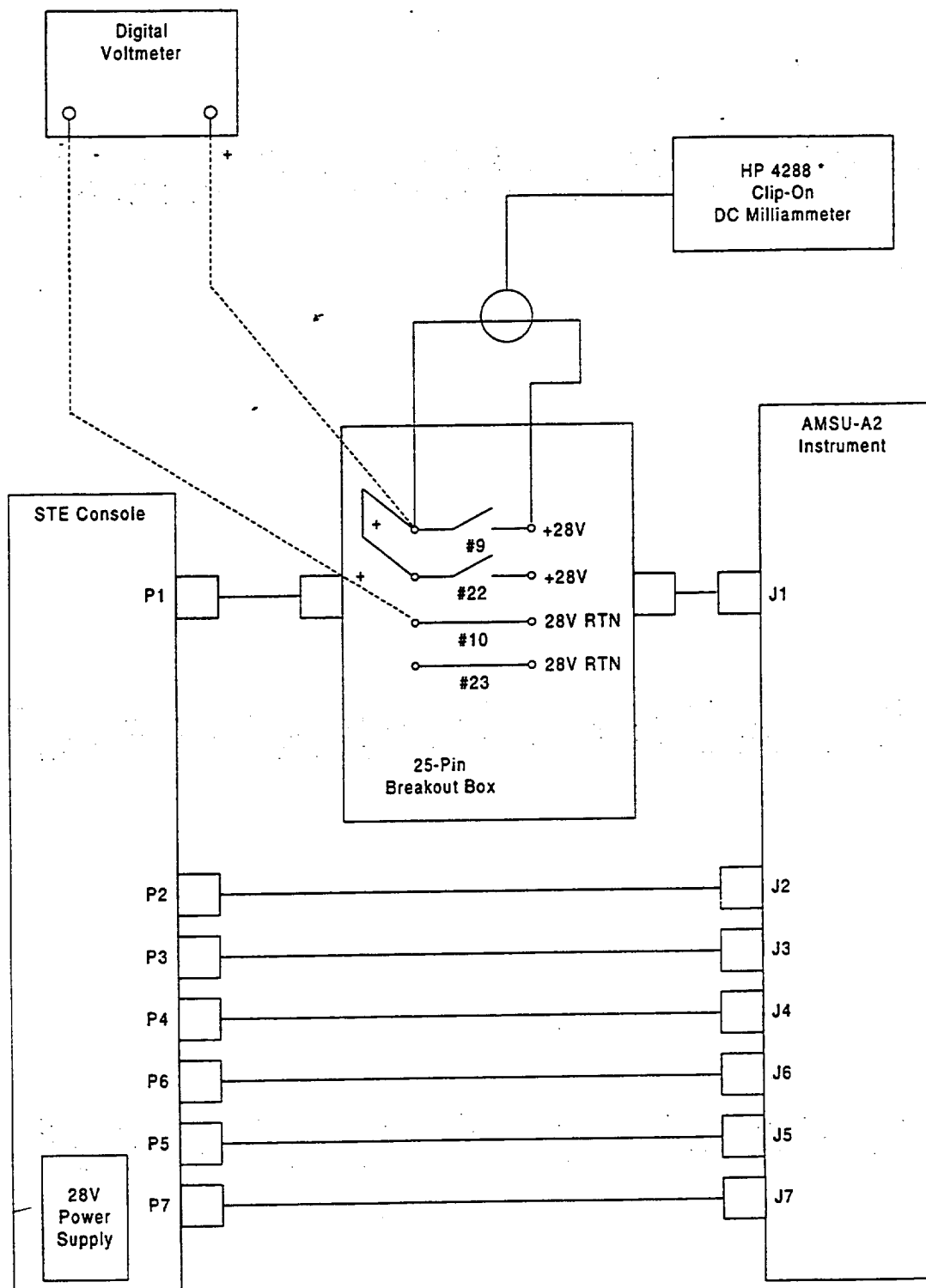
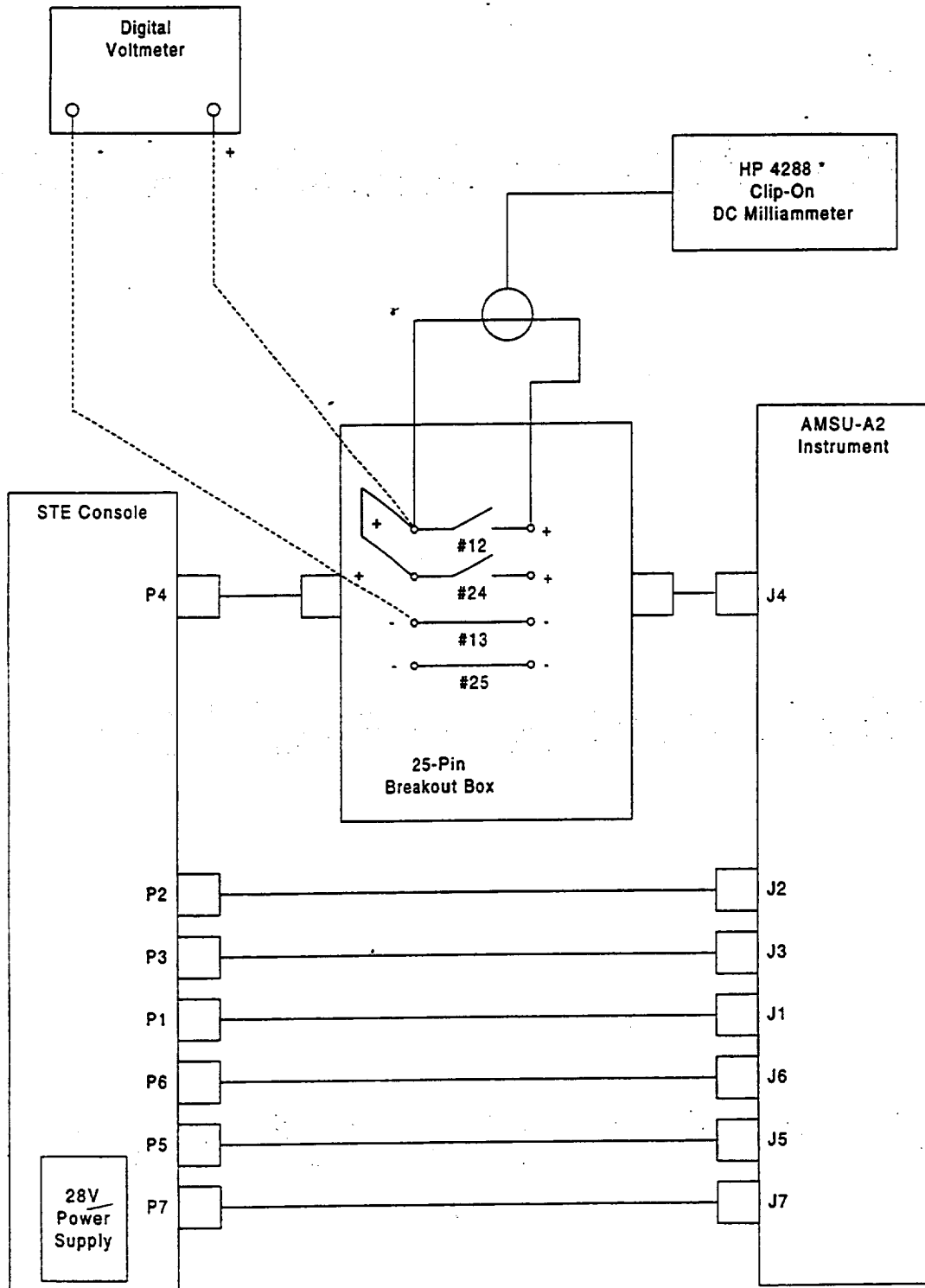


Figure 9. +28V Pulse Load Bus Turn-on Transient



* Inline current meter (Fluke 77) can be used.

Figure 10. +28V Analog Telemetry Bus Test Setup



* Inline current meter (Fluke 77) can be used.

Figure 11. +10V Interface Bus Test Setup

4. Calculate power and record on TDS 6.
5. Turn the unit OFF by executing command [11] MODULE TOTALLY OFF.

3.2.4.2.5 Power input test for LPT. For LPT, test the power input as follows:

1. Configure the unit and test equipment as indicated in Figure 12.
2. Turn the unit ON as described in 3.2.3.5.

NOTE

Do not proceed without successful completion of step 2.

3. Adjust the STE power supply such that the voltmeter across J1-1 and J1-3 reads $+28.0 \pm 0.5$ V. Record the voltage across the pin J1-1 and J1-3 and record the current at STE power supply on TDS B-1, Appendix B (LPT).
4. Turn off power by referring to 3.2.3.6.

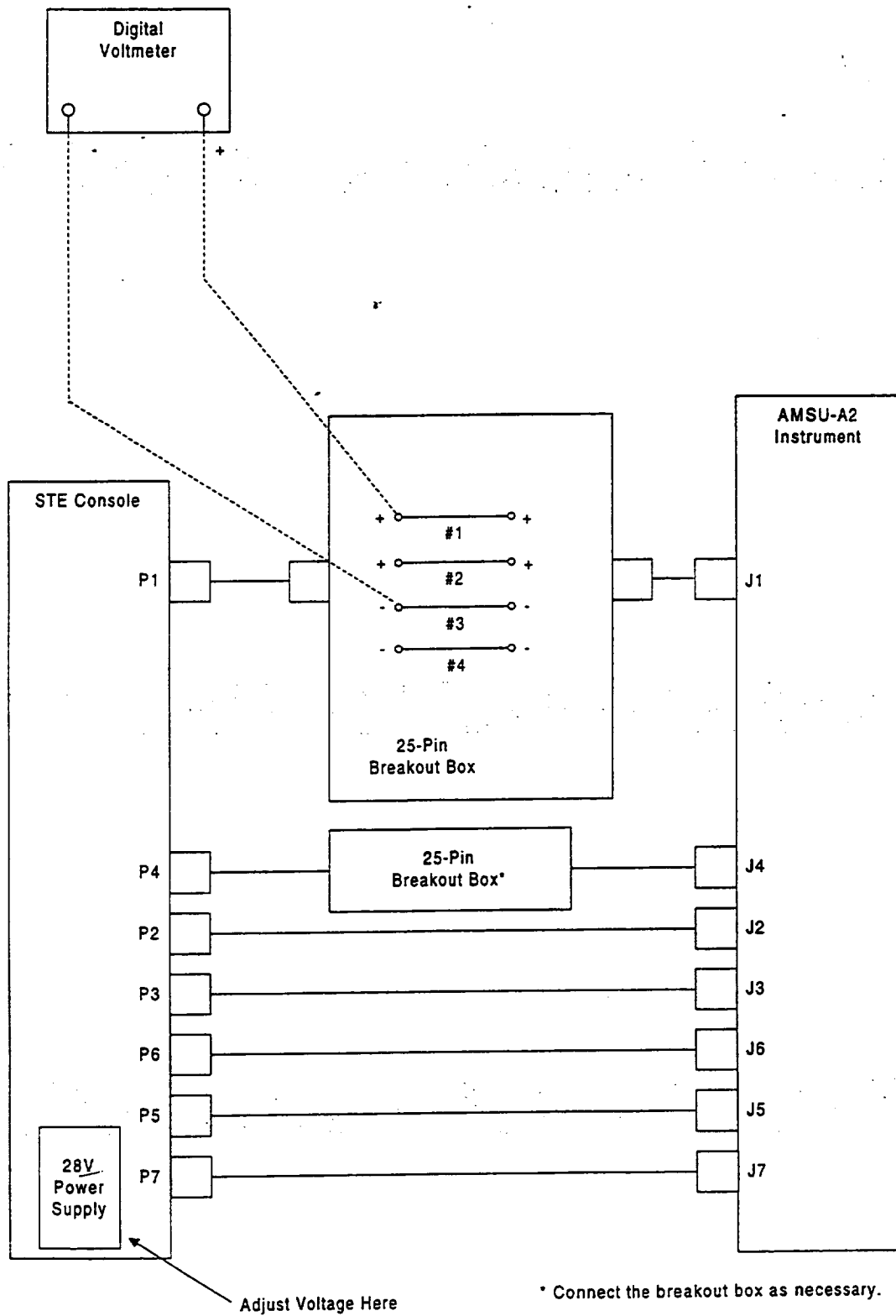


Figure 12. +28 V Main Load Bus Test Setup (For LPT Only)

3.2.4.3 Clock, commands, and data system test. This procedure verifies the clock signal, the commands, and the data requirements specified in S-480-80, GHS IS-3267415, and UHS IS-2624483.

3.2.4.3.1 Test sequence. The test sequence shall be as follows:

- a. Clock signals verification
- b. Commands and Digital-B telemetry verification
- c. Data output verification
 - Digital-A
 - Analog telemetry
 - Test points
- d. GSE modes.

3.2.4.3.2 Clock signals test. The following items shall be tested to verify the clock signals. Refer to Figures 13 and 14 for graphical representation of these pulses.

- a. 1.248 MHz clock
- b. 8 seconds frame pulse
- c. A1 select pulse
- d. C1 shift pulse

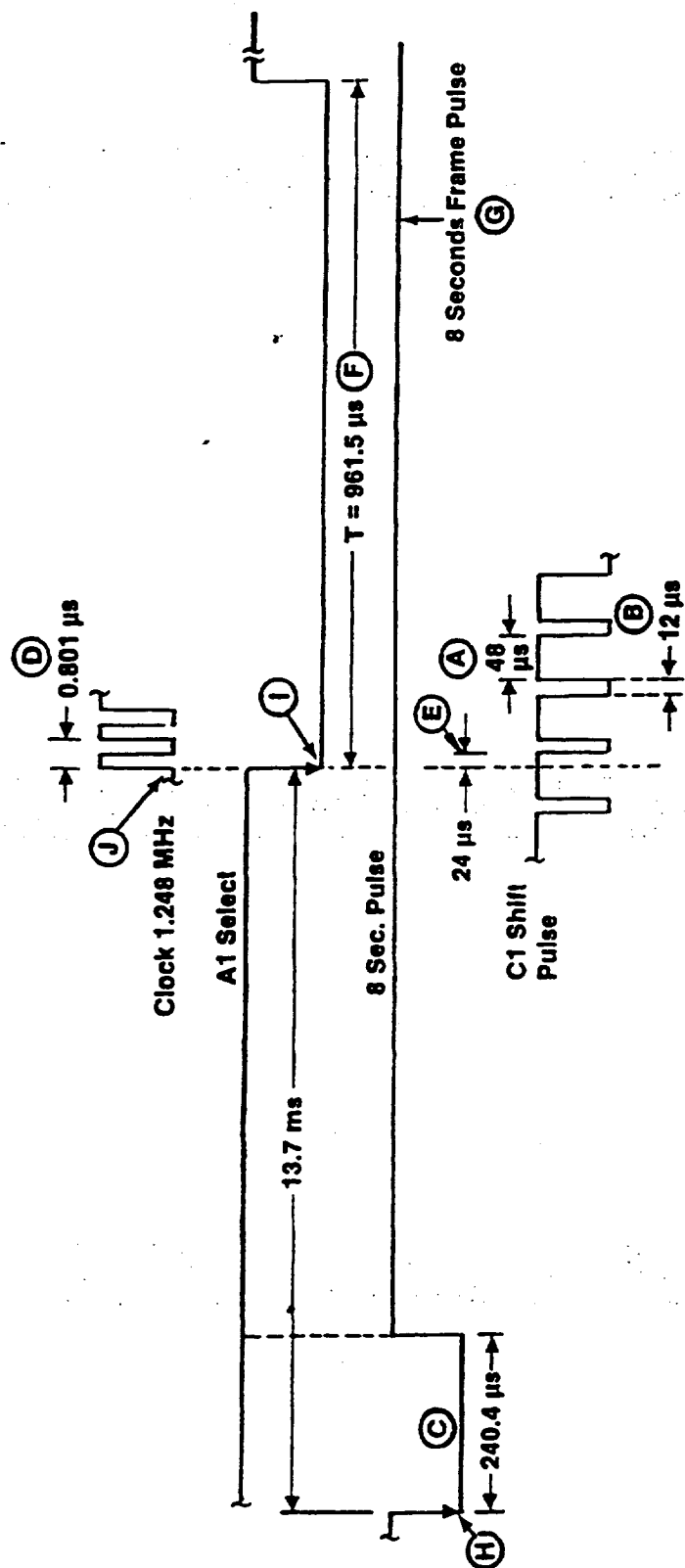
3.2.4.3.2.1 1.248 MHz synchronization clock. Perform the following procedures.

1. Configure the unit and the test equipment as indicated in Figure 15.
2. Connect CHANNEL-1 of the oscilloscope to the 1.248 MHz clock signal as shown in Figure 15.
3. Turn the unit ON as described in 3.2.3.5.

NOTE

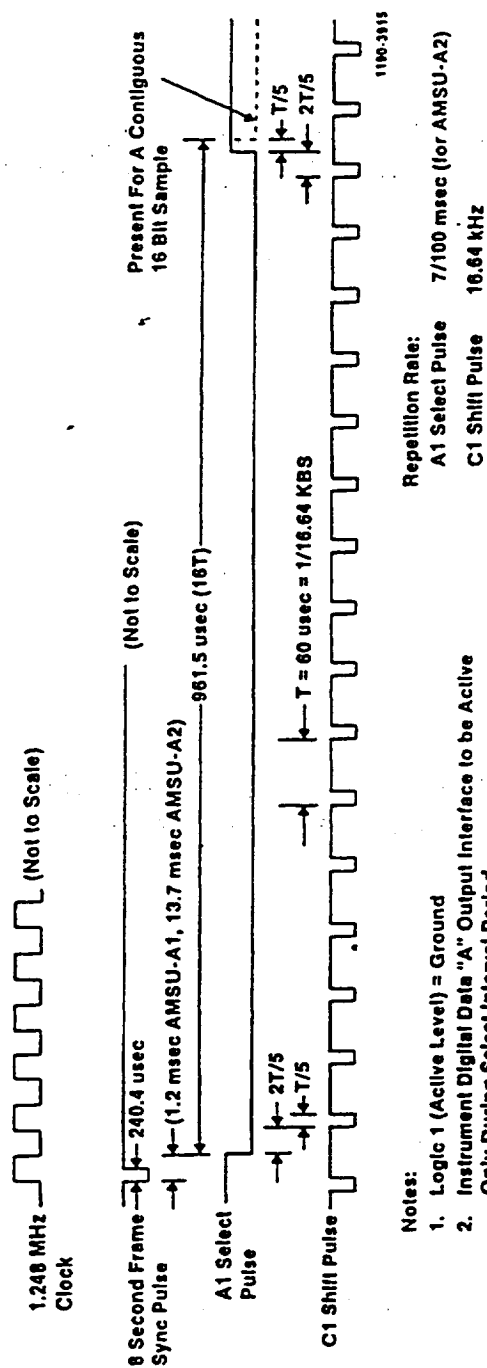
Do not proceed without successful completion of step 3.

4. Using the oscilloscope, measure the 1.248 MHz clock signal. Record the data and attach the photograph or plot on TDS 7.



1190-3916

Figure 13. Clock Pulses Timing and Synchronization



Notes:

1. Logic 1 (Active Level) = Ground
2. Instrument Digital Data "A" Output Interface to be Active Only During Select Interval Period.
3. TIROS-N Standard Fast Interface will be used for Transfer of all Data and Control Signals.
4. Ground Referenced to Interface Ground.
5. AMSU Select and Shift Pulses are Clocked by Low to High Transition of 1.248 MHz Clock.

Figure 14. Synchronization Interface Signals

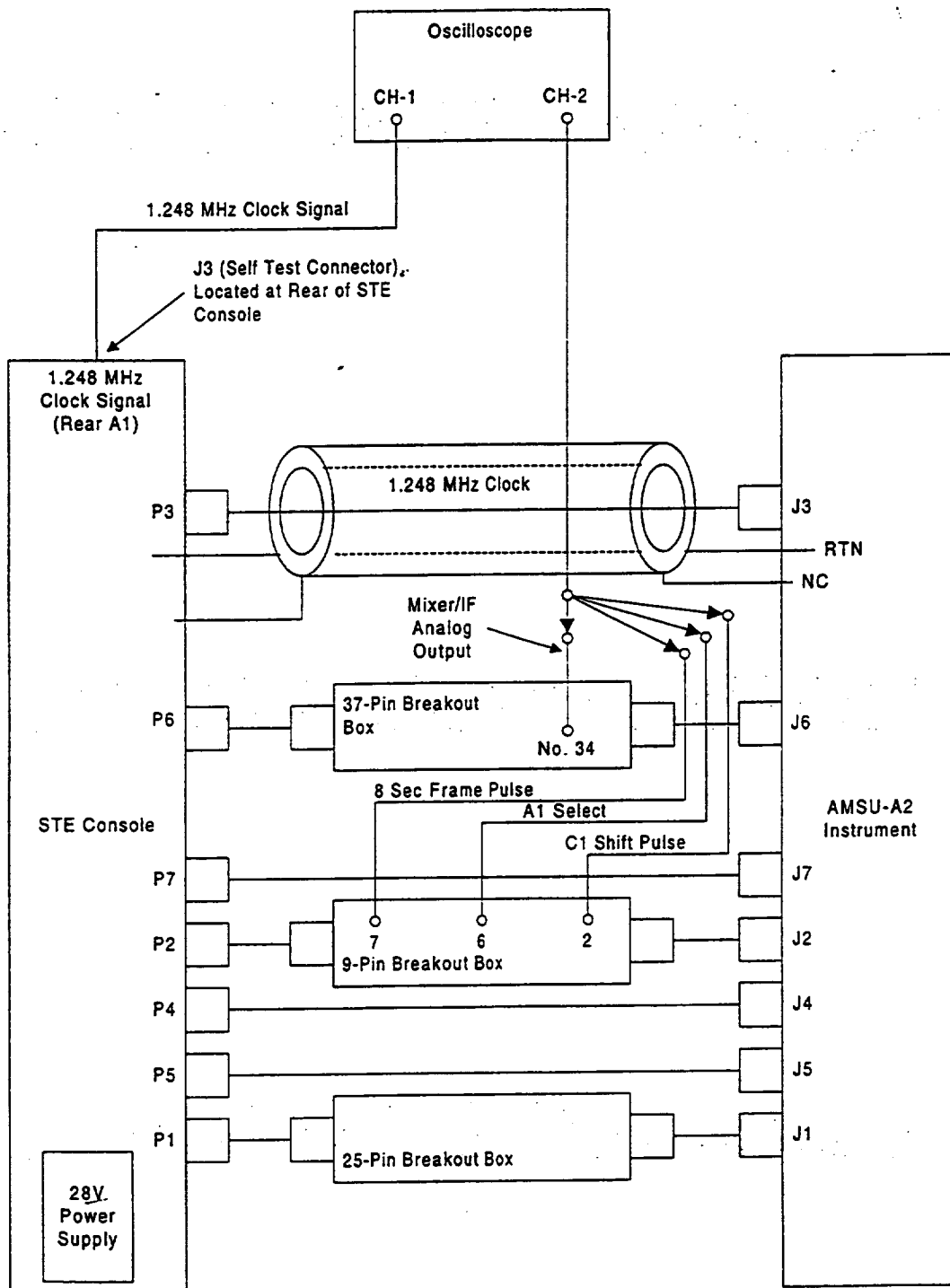


Figure 15. Clock Signal and DC/DC Converter Synchronization Test Setup

3.2.4.3.2.2 C1 shift pulse verification. Connect CHANNEL-2 of the oscilloscope to Pin 2 of the 9-pin breakout box (P2-J2). Photograph or plot the oscilloscope display and record the information indicated on TDS 8.

3.2.4.3.2.3 A1 select pulse verification. Connect CHANNEL-2 of the oscilloscope to Pin 6 of the 9-pin breakout box (P2-J2). Photograph or plot the oscilloscope display and record the information indicated on TDS 9.

3.2.4.3.2.4 8-seconds frame sync pulse verification. Perform the following procedures.

1. Connect CHANNEL-2 of the oscilloscope to Pin 7 of the 9-pin breakout box (P2-J2). Photograph or plot the oscilloscope display and record the information indicated on TDS 10. Measure pulse repetition timing by using HP5316A Universal counter and record on TDS 10.
2. Turn the unit OFF by executing the softkey command [11] MODULE TOTALLY OFF. Leave both breakout boxes in place.
3. Turn off power by referring to 3.2.3.6.

3.2.4.3.2.5 Synchronization signal relationship. The following synchronization signal relationship shall be verified.

- a. A1 select pulse and the 8-second frame sync pulse
- b. A1 select pulse and C1 shift pulse
- c. A1 select pulse and 1.248 MHz clock.

Relationship of A1 select pulse and the 8-second frame sync pulse:

1. With the unit off, configure the unit and the test equipment as indicated in Figure 16.
2. Connect CHANNEL-1 of the oscilloscope to the breakout box, Pin 7 (8 second frame pulse).
3. Turn the unit ON as described in 3.2.3.5.

NOTE

Do not proceed without successful completion of step 3.

4. Adjust the amplitude and the trigger level of the oscilloscope for best picture.
5. Photograph or plot the oscilloscope display and attach the photograph or plot in the space provided on TDS 11, sheet 1.
6. From the photograph or plot, verify the synchronization as described in TDS 11, sheet 1. Record pass or fail.

Relationship of A1 select pulse and C1 shift pulse:

7. Connect CHANNEL-1 of the oscilloscope to the breakout box Pin 2 (C1 shift pulse).

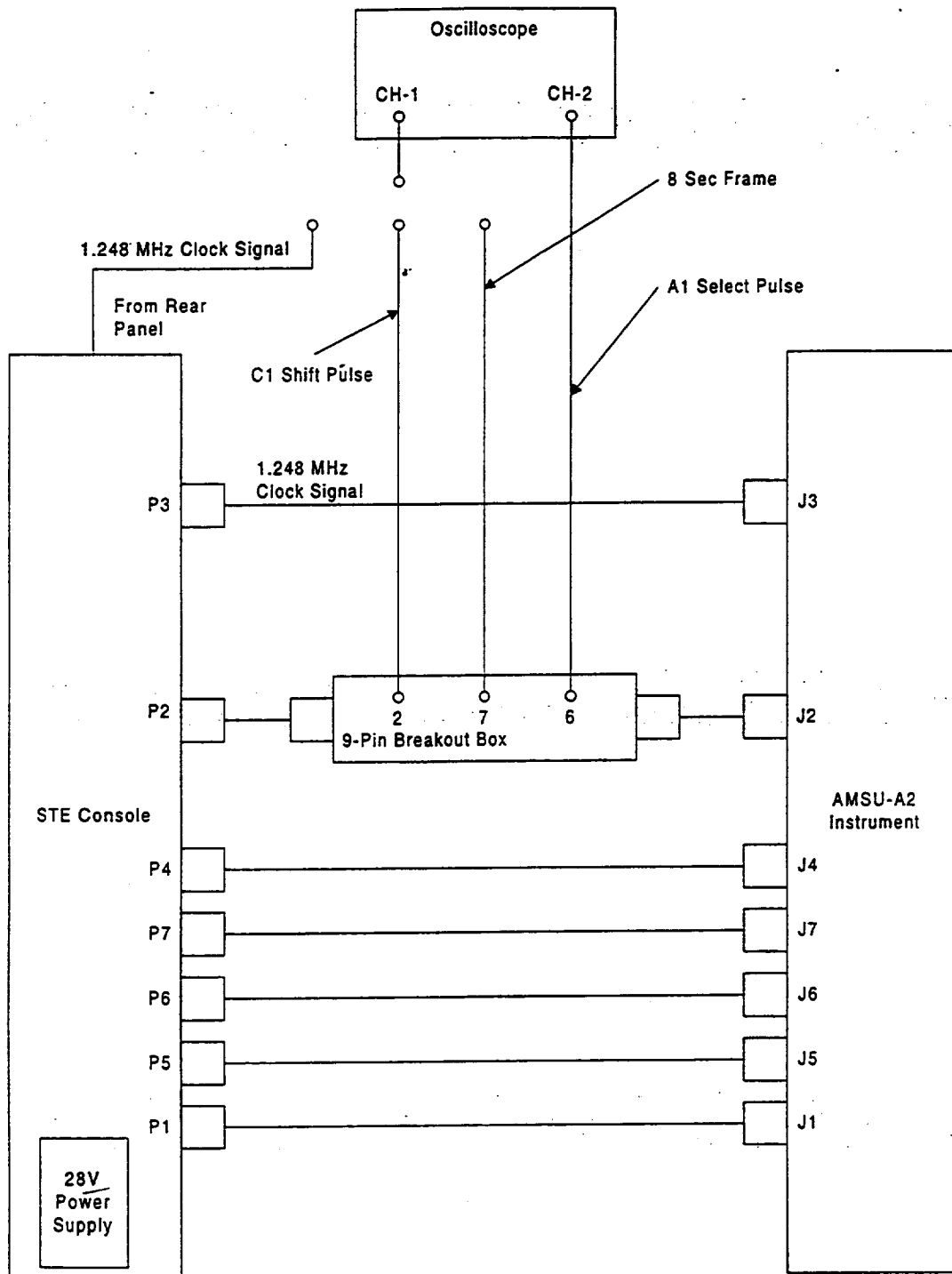


Figure 16. Synchronization Signal Relationships Test Setup

8. Adjust the amplitude and the trigger level of the oscilloscope for best picture.
9. Photograph or plot the oscilloscope display and attach the photograph or plot in the space provided on TDS 11, sheet 2.
10. From the photograph or plot, verify the synchronization as described in TDS 11, sheet 2. Record pass or fail.

Relationship of A1 select pulse and the 1.248 clock pulse:

11. Connect CHANNEL-1 of the oscilloscope to the clock connector located at the rear of the STE (J3 of SELF TEST).
12. Adjust the amplitude and the trigger level of the oscilloscope for best picture.
13. Photograph or plot the oscilloscope display and attach the photograph or plot in the space provided on TDS 12.
14. From the photograph or plot, verify the synchronization as described in TDS 12. Record pass or fail.
15. Turn off the instrument by executing command [11] MODULE TOTALLY OFF.
16. Turn off the +28 V STE power supply.
17. Connect unit to STE as shown in Figure 15 without breakout boxes and test equipment.

✓ 3.2.4.3.3 *Commands and digital-B telemetry test.* Commands and digital-B telemetry shall be verified in accordance with the following paragraphs.

✓ 3.2.4.3.3.1 *Module totally off.* Commands and digital-B telemetry, with the module totally off, shall be tested as follows:

1. Turn the unit ON as described in 3.2.3.5.

NOTE

Do not proceed without successful completion of step 1.

2. From the Commands Menu, execute command [11] MODULE TOTALLY OFF to OFF mode.
3. Wait at least 18 seconds, then verify that the following events are in effect:
 - a. [11] MODULE TOTALLY OFF = OFF
 - b. [12] SCANNER A2 POWER = OFF
 - c. [10] SURVIVAL HTR POWER = OFF
 - d. Antenna reflector pointing toward the warm load.
4. Record the above observations on TDS 13 (Appendix B, TDS B-2 for LPT).

✓ 3.2.4.3.3.2 *Survival heater power ON/OFF command.* The survival heater power ON/OFF command shall be tested as follows:

1. Execute command [10] SURVIVAL HEATER POWER to ON mode.
2. Wait at least 18 seconds. Verify that the command is in effect. Record observation on TDS 13 (Appendix B, TDS B-2 for LPT).
3. Execute command [10] SURVIVAL HEATER to OFF mode.
4. Wait at least 18 seconds. Verify that the command is in effect. Record observation on TDS 13 (Appendix B, TDS B-2 for LPT).

✓3.2.4.3.3 *Module power connect command.* The module power connect command shall be tested as follows:

1. Execute command [9] MODULE POWER to CONNECT mode.
2. Wait at least 18 seconds. Verify that the command is in effect. Record observation on TDS 13 (Appendix B, TDS B-2 for LPT).
3. Verify that the current at the STE power supply is 0.5 to 3.2 Amperes. Record this information on TDS 13 (Appendix B, TDS B-2 for LPT).

✓3.2.4.3.4 *Scanner commands verification.* The scanner commands shall be tested as follows:

1. Execute commands as necessary to obtain the following configuration:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO [15]
[10] SURVIVAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	YES [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	NO		
POWER [4] ON			

Wait at least 18 seconds. Verify that the commands are in effect. Record observations on TDS 14 (Appendix B, TDS B-3 for LPT).

2. Execute. [12] SCANNER A2 POWER = OFF
[13] COMPENSATOR MOTOR POWER = OFF

Wait at least 18 seconds. Verify that the commands are in effect. Record observations on TDS 15 (Appendix B, TDS B-4 for LPT).

3. Execute. [12] SCANNER A2 POWER = ON
[13] COMPENSATOR MOTOR POWER = ON

Wait at least 18 seconds. Verify that the commands are in effect. Record observations on TDS 16 (Appendix B, TDS B-5 for LPT).

✓3.2.4.3.5 *Scanner position commands verification.* Verify scanner position command operation as follows:

1. Execute command [14] ANTENNA WARM CAL POS to YES mode.
2. Wait at least 18 seconds. Verify that the command is in effect. Record observation on TDS 17 (Appendix

B, TDS B-6 for LPT).

3. Execute commands [15] ANTENNA IN COLD CAL POS to YES mode, [18] COLD CAL POSITION MSB to 0, and [19] COLD CAL POSITION LSB to 1.
4. Wait at least 18 seconds. Verify that the commands are in effect. Record observation on TDS 17 (Appendix B, TDS B-6 for LPT).
5. Execute commands [18] COLD CAL POSITION MSB to 1 and [19] COLD CAL POSITION LSB to 0.
6. Wait at least 18 seconds. Verify that the commands are in effect. Record observation on TDS 17 (Appendix B, TDS B-6 for LPT).
7. Execute commands [18] COLD CAL POSITION MSB to 1 and [19] COLD CAL POSITION LSB to 1.
8. Wait at least 18 seconds. Verify that the commands are in effect. Record observation on TDS 17 (Appendix B, TDS B-6 for LPT).
9. Execute commands [18] COLD CAL POSITION MSB to 0 and [19] COLD CAL POSITION LSB to 0.
10. Wait at least 18 seconds. Verify that the commands are in effect. Record observation on TDS 17 (Appendix B, TDS B-6 for LPT).
11. Execute command [16] ANTENNA IN NADIR POSITION to YES mode.
12. Wait at least 18 seconds. Verify that the command is in effect. Record observation on TDS 17 (Appendix B, TDS B-6 for LPT).
13. Execute command [14] ANTENNA WARM CAL POS to YES mode.
14. Wait at least 18 seconds. Verify that the command is in effect. Record observation on TDS 17 (Appendix B, TDS B-6 for LPT).

✓3.2.4.3.4 *Digital-A data output test.* The following items shall be tested to verify the digital-A data output:

- a. Full scan (3.2.4.3.4.1)
- b. Warm load (3.2.4.3.4.2)
- c. Cold cal (3.2.4.3.4.3)
- d. Nadir (3.2.4.3.4.4).

For each of the above scan modes, the following parameters will be subject to pass/fail criterion:

- [I] Sync. sequence
- [II] Unit I.D. and serial number
- [III] Digital B serial data verification
- [IV] Reflector positions
- [V] Radiometric data (scene data)

[VI] Temperature sensors.

For the cold cal mode, reflector position [IV] shall be tested for the following conditions.

- (a) Cold cal position with MSB=1 and LSB=0
- (b) Cold cal position with MSB=0 and LSB=1
- (c) Cold cal position with MSB=1 and LSB=1.

✓ 3.2.4.3.4.1 *Full scan mode.* The digital-A data output in full-scan mode shall be tested as follows:

1. Execute commands as necessary to obtain the following configuration:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO	[15]
[10] SURVIAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO	[16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	YES	[17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO	[18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO	[19]
[14] ANTENNA WARM CAL POS =	NO			
POWER [4] ON				

2. Obtain a full printout of all the parameters ([I] through [VI]) described above, by typing PRINT [3] FULL.
3. Attach the printout to TDS 18 (Appendix B, TDS B-7 for LPT).

[I], [II], and [III] Sync, Unit ID, and Digital-B Data:

4. Using Page 1 of the printout, verify that elements 0001 through 0008 are within the required values specified in TDS 18 (Appendix B, TDS B-7 for LPT). Record pass or fail.

[IV] Reflector position:

5. Using STE procedure AE-26157; select reflector position screen, execute PRINT [2] SCREEN ONLY, and attach the data to TDS 19 (Appendix B, TDS B-8 for LPT). Verify that there is no "E" error on computer printout. Record pass or fail on TDS 19 (Appendix B, TDS B-8 for LPT).

[V] Radiometric data:

6. Using STE procedure AE-26157, select Radiometric data for CH-1 and CH-2. PRINT SINGLE [2] PAGES for each channel. From the data obtained, verify that the data are within the values specified on TDS 20. Attach the data for each channel to TDS 20 (Appendix B, TDS B-9 for LPT). Record pass or fail.

[VI] Temperature sensors:

7. Using STE procedure AE-26157, select DIG-A temperature sensor screen and PRINT SINGLE [2] PAGE. From the data obtained, verify that the values are within the specified limits on TDS 21 (Appendix B, TDS B-10 for LPT). Attach the data to TDS 21 (Appendix B, TDS B-10 for LPT). Record pass or fail.

✓ 3.2.4.3.4.2 *Warm cal mode.* The digital-A data output, in warm-cal mode shall be tested as follows:

1. Execute command [14] ANTENNA WARM CAL POS and verify command display is as follows:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO [15]
[10] SURVIAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	NO [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	YES		
POWER [4] ON			

2. Obtain a full printout of all the parameters ([I] through [VI]) described above, by touching the PRINT [3] FULL touch area.

3. Attach the printout to TDS 22.

[I], [II], and [III] Sync, Unit ID, and Digital-B Data:

4. Using Page 1 of the printout, verify that elements 0001 through 0008 are within the required values specified in TDS 22. Record pass or fail.

[IV] Reflector position:

5. Using STE procedure AE-26157; select reflector position screen, execute PRINT [2] SCREEN ONLY, and attach the data to TDS 23. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 23.

[V] Radiometric data:

6. Using STE procedure AE-26157, select Radiometric data for channel 1 and channel 2. PRINT [2] SINGLE PAGES for each channel. From the data obtained, verify that the data are within the values specified on TDS 24. Attach the data for each channel to TDS 24. Record pass or fail.

[VI] Temperature sensors:

7. Using STE procedure AE-26157, select DIG-A temperature sensor screen and PRINT SINGLE [2] PAGE. From the data obtained, verify that the values are within the specified limits on TDS 25. Attach the data to TDS 25. Record pass or fail.

✓3.2.4.3.4.3 *Cold cal mode.* The digital-A data output, in cold-cal mode, shall be tested as follows:

1. Execute command [15] ANTENNA IN COLD CAL POS and verify command display is as follows:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	YES [15]
[10] SURVIAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	NO [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	NO		
POWER [4] ON			

2. Obtain a full printout of all the parameters ([I] through [VI]) described above, by touching the PRINT [3] FULL touch area.

3. Attach the printout to TDS 26.

[I], [II], and [III] Sync, Unit ID, and Digital-B Data:

4. Using Page 1 of the printout, verify that elements 0001 through 0008 are within the required values specified in TDS 26. Record pass or fail.

[IV] Reflector position:

5. To test the cold cal reflector position, perform the following substeps:
 - (a) Using STE procedure AE-26157; select reflector position screen, execute PRINT [2] SCREEN ONLY, and attach the data to TDS 23. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 23.
 - (b) Execute commands [18] COLD CAL POSITION MSB to 0 and [19] COLD CAL POSITION LSB to 1. Repeat substep a. then proceed to substep c.
 - (c) Execute commands [18] COLD CAL POSITION MSB to 1 and [19] COLD CAL POSITION LSB to 0. Repeat substep a., then proceed to substep d.
 - (d) Execute commands [18] COLD CAL POSITION MSB to 1 and [19] COLD CAL POSITION LSB to 1. Repeat substep a., then proceed to substep e.
 - (e) Execute commands [18] COLD CAL POSITION MSB to 0 and [19] COLD CAL POSITION LSB to 0.

[V] Radiometric data:

6. Using STE procedure AE-26157, select Radiometric data for channel 1 and channel 2. PRINT [2] SINGLE PAGES for each channel. From the data obtained, verify that the data are within the values specified on TDS 27. Attach the data for each channel to TDS 27. Record pass or fail.

[VI] Temperature sensors:

7. Using STE procedure AE-26157, select DIG-A temperature sensor screen and PRINT SINGLE [2] PAGE. From the data obtained, verify that the values are within the specified limits on TDS 28. Attach the data to TDS 28. Record pass or fail.

✓ 3.2.4.3.4.4 *Nadir cal mode.* The digital-A data output, in nadir-cal mode, shall be tested as follows:

1. Execute command [16] ANTENNA IN NADIR POS and verify command display is as follows:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO [15]
[10] SURVIAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	YES [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	NO [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	NO		
POWER [4] ON			

2. Obtain a full printout of all the parameters ([I] through [VI]) described above, by touching the PRINT [3] FULL touch area.

3. Attach the printout to TDS 29.

[I], [II], and [III] Sync, Unit ID, and Digital-B Data:

4. Using Page 1 of the printout, verify that elements 0001 through 0008 are within the required values specified in TDS 29. Record pass or fail.

[IV] Reflector position:

5. Using STE procedure AE-26157; select reflector position screen, execute "PRINT [2] SCREEN ONLY", and attach the data to TDS 23. Verify that there is no "E" error on the computer printout. Record pass or fail on TDS 23.

[V] Radiometric data:

6. Using STE procedure AE-26157, select Radiometric data for channel 1 and channel 2. "PRINT [2] SINGLE PAGES" for each channel. From the data obtained, verify that the data are within the values specified on TDS 30. Attach the data for each channel to TDS 30. Record pass or fail.

[VI] Temperature sensors:

7. Using STE procedure AE-26157, select DIG-A temperature sensor screen and "PRINT SINGLE [2] PAGE". From the data obtained, verify that the values are within the specified limits on TDS 31. Attach the data to TDS 31. Record pass or fail.

✓3.2.4.3.5 *Analog telemetry test.* The purpose of this test is to verify that the 26 analog telemetry signals are within requirements. The purpose of the analog telemetry signals is to provide information about the functionality of the subsystems during normal operation of the unit. The analog telemetry signals shall be verified in two ways: (1) by measuring the analog telemetry signals directly at the interfacing connector and (2) by use of the STE.

✓3.2.4.3.5.1 *Analog TLM signals measurements connector J6.* Measure analog TLM signals at connector J6 as follows:

1. Configure the unit and the STE as indicated in Figure 17. Verify that unit power is off prior to the installation of the breakout boxes. To turn the unit off, select the Commands Menu and execute command "[11] MODULE TOTALLY OFF". Manually turn off the STE 28V power supply located inside the STE console.
2. Turn the unit on as follows:
 - (a) Turn on the STE 28V power supply.
 - (b) Execute commands as necessary to achieve the following configuration:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO [15]
[10] SURVIAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	YES [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	NO		
POWER [4] ON			

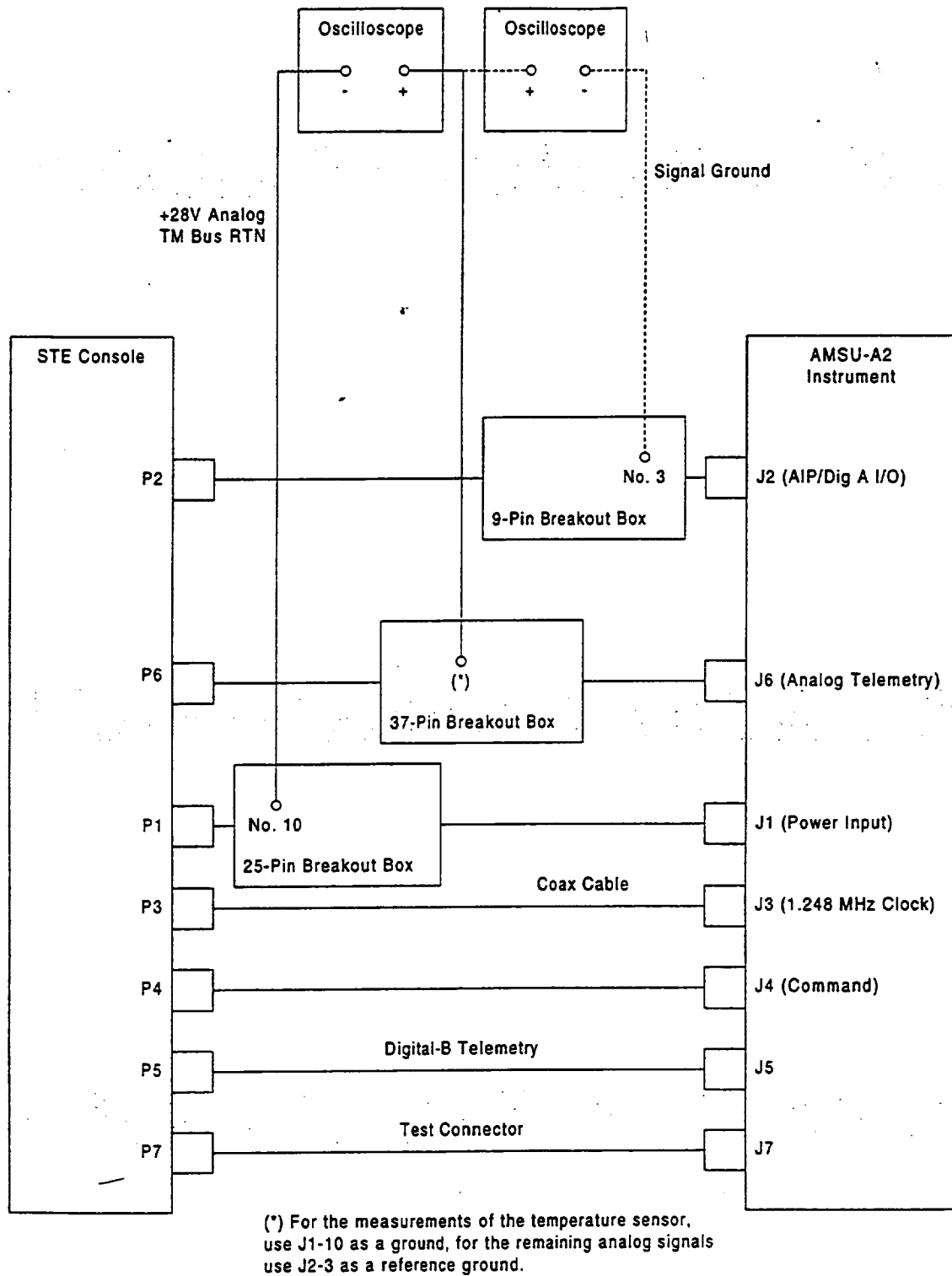


Figure 17. Analog Telemetry Signal Verification Test Setup

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3. Using the "28V Analog Telemetry Bus Return" (J1-10) as a reference ground, measure and record the four temperature sensor voltages in the order specified on TDS 32.
4. Using the "Signal Ground" (J2-03) as a reference ground, measure and record the remaining analog telemetry voltage levels in the order specified on TDS 32.
5. Leave the unit on in preparation for the next test.

✓3.2.4.3.5.2 *Analog TLM signal measurements using the STE.* Analog TLM signal measurements using the STE shall be taken as follows: ~~Determine if Analog Telemetry Conversion~~ **STET** **AMSU 1 SEIT** **8/13/98** **ENTERED IN ERROR**

1. Using STE procedure AE-26157, select Analog TLM screen and execute command "PRINT [2] SCREEN ONLY". Obtain printout and verify that the data matches the values specified on TDS 33 (Appendix B, TDS B-11 for LPT). Record pass or fail.
2. Attach computer printout to TDS 33 (Appendix B, TDS B-11 for LPT).
3. Power off unit by referring to 3.2.3.6.

3.2.4.3.6 *Test point test.* The purpose of this test is to verify the performance of the integrator and its associated clock pulses. Figure 2 shows the integration waveform and the clock signals. Test point verification consists of the following parameters:

- a. Integration/Hold and Dump Clock Signals. (3.2.4.3.6.1)
(Time and amplitude)
- b. Integration Time (Analog Output). (3.2.4.3.6.2)
(Time and amplitude)

3.2.4.3.6.1 *Integration/hold and dump clock signals.* The integration/hold and dump clock signals shall be tested as follows:

1. Referring to Figure 18, configure the oscilloscope as follows:
 - (a) Channel-1 to J7-23 integration/hold clock signal (J7-26 RTN).
 - (b) Channel-2 to J7-6 dump signal clock (J7-26 RTN).
 - (c) Internal trigger mode to channel-1.
 - (d) Amplitude and Time optimized for best resolution.
2. Power on unit by referring to 3.2.3.5.
3. Photograph or plot the oscilloscope display and attach the photograph or plot to TDS 34.
4. From the photograph or plot, measure time and amplitude for the integrate/hold and dump clock signals. Verify that the data obtained are within the requirements specified on TDS 34 and Figure 2.
5. Leave the equipment in place and the unit turned on in preparation for the next test.

3.2.4.3.6.2 *Integration time (analog outputs).* The analog outputs integration time shall be tested as follows:

1. Reconfigure the test equipment as indicated in Figure 19.

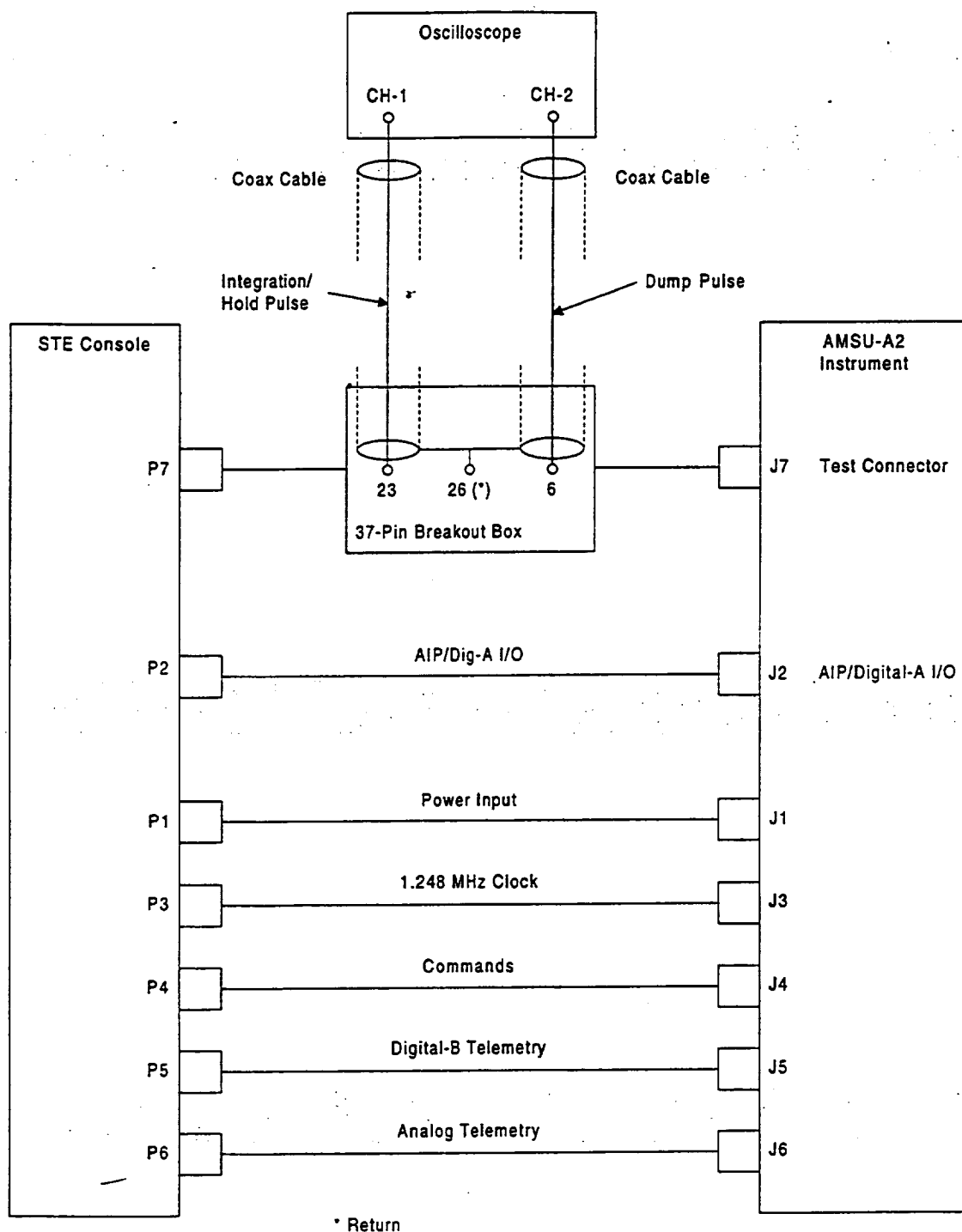


Figure 18. Integration/Hold and Dump Signals Verification Test Setup

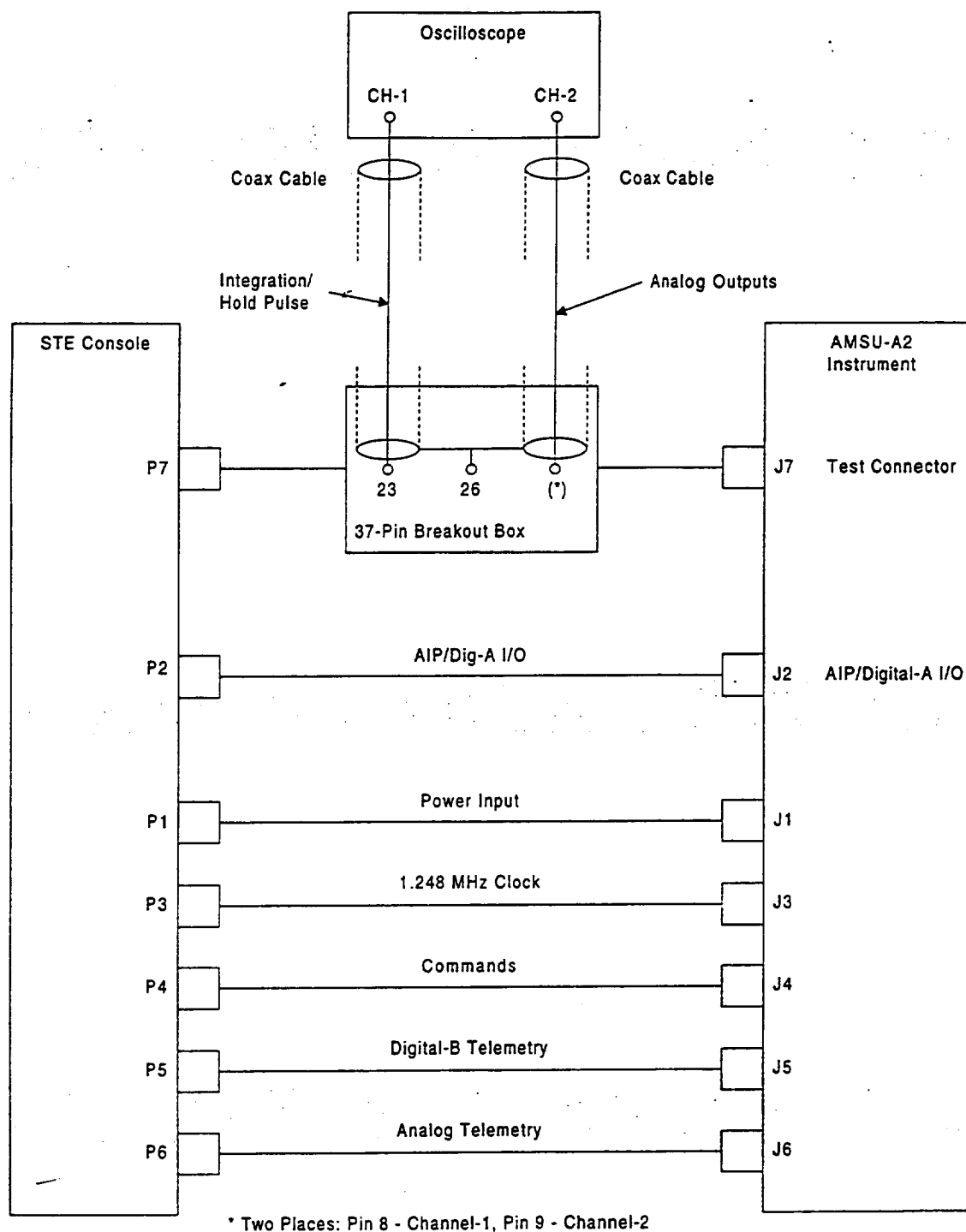


Figure 19. Integration Time (Analog Output) Verification Setup

2. Connect the oscilloscope, channel-2 positive line to J7-8 of the 37-pin breakout box. Keep channel-1 of the oscilloscope connected to J7-23 and J7-26 (RTN).
3. Adjust the oscilloscope for best amplitude and time resolution. The displayed signals should look like Figure 2.
4. Photograph or plot the display and attach it to TDS 35.
5. From the photograph or plot, measure the integration time and the amplitude. Verify that the data obtained is within the requirements specified in TDS 35.
6. Connect the oscilloscope to the analog signal for channel-2 (J7-9) and repeat steps 2 through 5.
7. Leave the unit turned on and the test equipment in place in preparation for the next test.

3.2.4.3.7 *GSE mode test.* The purpose of this test is to verify the data obtained from the Ground Support Equipment (GSE).

NOTE

The GSE mode test is not required and is for engineering use only.

The following modes shall be evaluated.

- GSE-1 (Position: 10, 10, 10)
- GSE-2 (Position: 1, 30 readings)
- GSE-3 (Position: current, 30 readings)
- GSE-4 (Position: 30, 30 readings)
- GSE-5 (Position: 6, 30 readings)
- GSE-7 (Position: required, 30 readings)

For GSE mode-1 the following parameters are subject to pass or fail criterion:

- [I] Sync. sequence
- [II] Unit ID and serial number
- [III] Digital B serial data verification
- [IV] Reflector positions
- [V] Radiometric data (Scene data for channel-1 only)
- [VI] Temperature sensors.

For GSE 2 through 7, only the following parameters are subject to pass or fail criterion:

- [IV] Reflector position.

3.2.4.3.7.1 *Equipment preparation.* To place instrument in GSE mode, proceed as follows:

- a. On Commands Menu, press: RETURN [1].
- b. On Main Menu, select: [10] SELF TEST.
- c. On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
- d. Enter corresponding GSE mode under test.

3.2.4.3.7.2 GSE Mode-1. The GSE mode-1 shall be tested as follows:

[I], [II], and [III] Sync, Unit ID, and Digital B:

1. Place instrument in GSE mode-1 and obtain full printout. Using the printout, verify that elements 1 through 8 are within the values specified on TDS 36. Record pass or fail.

[IV] Reflector Positions:

2. Using STE procedure AE-26157, select reflector position screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of data. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 37. Attach printout to TDS 37.

[V] Radiometric Data:

3. Using STE procedure AE-26157, select radiometric data screen for channel-1 and channel-2. Obtain a single page printout for each channel. Verify that the radiometrical data is within the required values specified on TDS 38. Attach printout to TDS 38.

[VI] Temperature Sensors:

4. Using STE procedure AE-26157, select DIG-A temp. sensor data screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of the page. Verify that the temperature data are within the required values specified on TDS 39. Record pass or fail on TDS 39. Attach printout to TDS 39.

3.2.4.3.7.3 GSE Mode-2. The GSE Mode-2 shall be tested as follows:

1. Place unit in GSE Mode-2 as follows:
 - (a) On Commands Menu, press: RETURN [1].
 - (b) On Main Menu, select: [10] SELF TEST.
 - (c) On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
 - (d) Enter GSE MODE [2] at the prompt.

[IV] Reflector Positions:

2. Using STE procedure AE-26157, select reflector position screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of data. Verify that the reflector positions are within the required values specified on document AE-26002/2. Record pass or fail on TDS 37. Attach printout to TDS 37.

3.2.4.3.7.4 GSE Mode-3. The GSE Mode-3 shall be tested as follows:

1. Place unit in GSE Mode-3 as follows:
 - (a) On Commands Menu, press: RETURN [1].
 - (b) On Main Menu, select: [10] SELF TEST.
 - (c) On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
 - (d) Enter GSE MODE [3] at the prompt.

[IV] Reflector Positions:

2. Using STE procedure AE-26157, select reflector position screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of data. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 37. Attach printout to TDS 37.

3.2.4.3.7.5 GSE Mode-4. The GSE Mode-4 shall be tested as follows:

1. Place unit in GSE Mode-4 as follows:
 - (a) On Commands Menu, press: RETURN [1].
 - (b) On Main Menu, select: [10] SELF TEST.
 - (c) On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
 - (d) Enter GSE MODE [4] at the prompt.

[IV] Reflector Positions:

2. Using STE procedure AE-26157, select reflector position screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of data. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 37. Attach printout to TDS 37.

3.2.4.3.7.6 GSE Mode-5. The GSE Mode-5 shall be tested as follows:

1. Place unit in GSE Mode-5 as follows:
 - (a) On Commands Menu, press: RETURN [1].
 - (b) On Main Menu, select: [10] SELF TEST.
 - (c) On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
 - (d) Enter GSE MODE [5] at the prompt.

[IV] Reflector Positions:

2. Using STE procedure AE-26157, select reflector position screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of data. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 37. Attach printout to TDS 37.

3.2.4.3.7.7 GSE Mode-7. The GSE Mode-7 shall be tested as follows:

1. Place unit in GSE Mode-7 as follows:
 - (a) On Commands Menu, press: RETURN [1].
 - (b) On Main Menu, select: [10] SELF TEST.
 - (c) On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
 - (d) Enter GSE MODE [7] at the prompt.
 - (e) Press PRINT [3] FULL. The computer will start printing 4 pages of data.

[IV] Reflector Positions:

2. Using STE procedure AE-26157, select reflector position screen and execute "PRINT [2] SCREEN ONLY" to obtain a printout of data. Verify that there is no "E" error on computer printout. Record pass or fail on TDS 37. Attach printout to TDS 37.
3. Set the STE to GSE MODE-0, failure to do so will cause the STE to produce faulty data when in normal mode. To enter GSE Mode-0 into the computer, proceed as follows:
 - (a) Return to the Main Menu by pressing: RETURN [1].
 - (b) On Main Menu, select: [10] SELF TEST.
 - (c) On Self Test Menu, select: [7] RUN GSE MODE.
(The computer will prompt: "ENTER GSE MODE (0 to 15)".)
 - (d) Select GSE MODE [0].

3.2.4.4 Radiometer functional test. The purpose of this procedure is to verify the performance of the AMSU-A2 radiometer at the system level. This test shall consist of relative NEAT measurements.

3.2.4.4.1 Relative radiometer NEAT measurements. The purpose of this test is to perform a preliminary evaluation of the radiometer NEAT at a system level. Since the STE is not in the thermal-vacuum configuration, no temperature readings from the cold load are available. To compute the NEAT for this test, the temperature used for the cold load shall be 80 K.

The data obtained from this test are considered as "relative NEAT" and are to be used as a diagnostic tool to verify proper operation of the A/D converters and the spacecraft interface.

The equation to determine "relative NEAT" is as follows:

$$GAIN = \frac{Th - Tc}{M - N}$$

$$NEAT = SD \times GAIN$$

where:

SD	=	Standard deviation of 120 samples at hot temperature
Th	=	Standard room temperature = deg. K
Tc	=	Standard LN ₂ temperature = 80 K

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- M = Average of hot counts (120 samples)
 N = Average of cold counts (30 samples)

The sequence of testing shall be as follow:

- a. Equipment preparation and setup configuration (3.2.4.4.1.1)
- b. Relative NEAT data collection (3.2.4.4.1.2)

3.2.4.4.1.1 *Equipment preparation and setup configuration.* The equipment shall be setup as follows:

WARNING

The use of liquid nitrogen in a confined poorly ventilated area can cause rapid asphyxiation and death due to a lack of oxygen (oxygen concentration below 20 percent). Accidental contact with liquid nitrogen will cause severe frostbite to the eyes or skin. When handling liquid nitrogen, personnel shall observe the following safety precautions:

- a. Ensure that the work area is well ventilated to prevent excessive gas buildup.
 - b. To protect your eyes, always wear a face shield or safety goggles (safety glasses without side shields do not provide adequate protection).
 - c. To protect exposed skin, always wear a lab coat, gloves made for cryogenic work, cuffless trousers (worn outside the boots or shoes), and safety shoes.
1. Configure the test equipment and the unit as indicated in Figure 20. Connect the instrument to STE as shown in Figure 21 without breakout boxes.
 2. Execute commands as necessary to obtain the following configuration:

[9] MODULE POWER =	CONNECT	ANTENNA IN COLD CAL POS =	NO [15]
[10] SURVIAL HTR PWR =	OFF	ANTENNA IN NADIR POS=	NO [16]
[11] MODULE TOTALLY OFF =	ON	ANTENNA FULL SCAN MODE =	NO [17]
[12] SCANNER A2 POWER =	ON	COLD CAL POSITION MSB =	ZERO [18]
[13] COMPENSATOR MOTOR POWER =	ON	COLD CAL POSITION LSB =	ZERO [19]
[14] ANTENNA WARM CAL POS =	YES		
POWER [4] ON	—		

3. Allow 30 minutes for the unit to stabilize.

3.2.4.4.1.2 *Relative NEAT data collection.* Perform the following procedures.

1. Return to the Main Menu by pressing [1] RETURN.
2. On the Main Menu, select [13] FUNCTIONAL TEST. (The STE will automatically command the unit to position the antenna reflector to the warm and cold loads as it is taking data.)

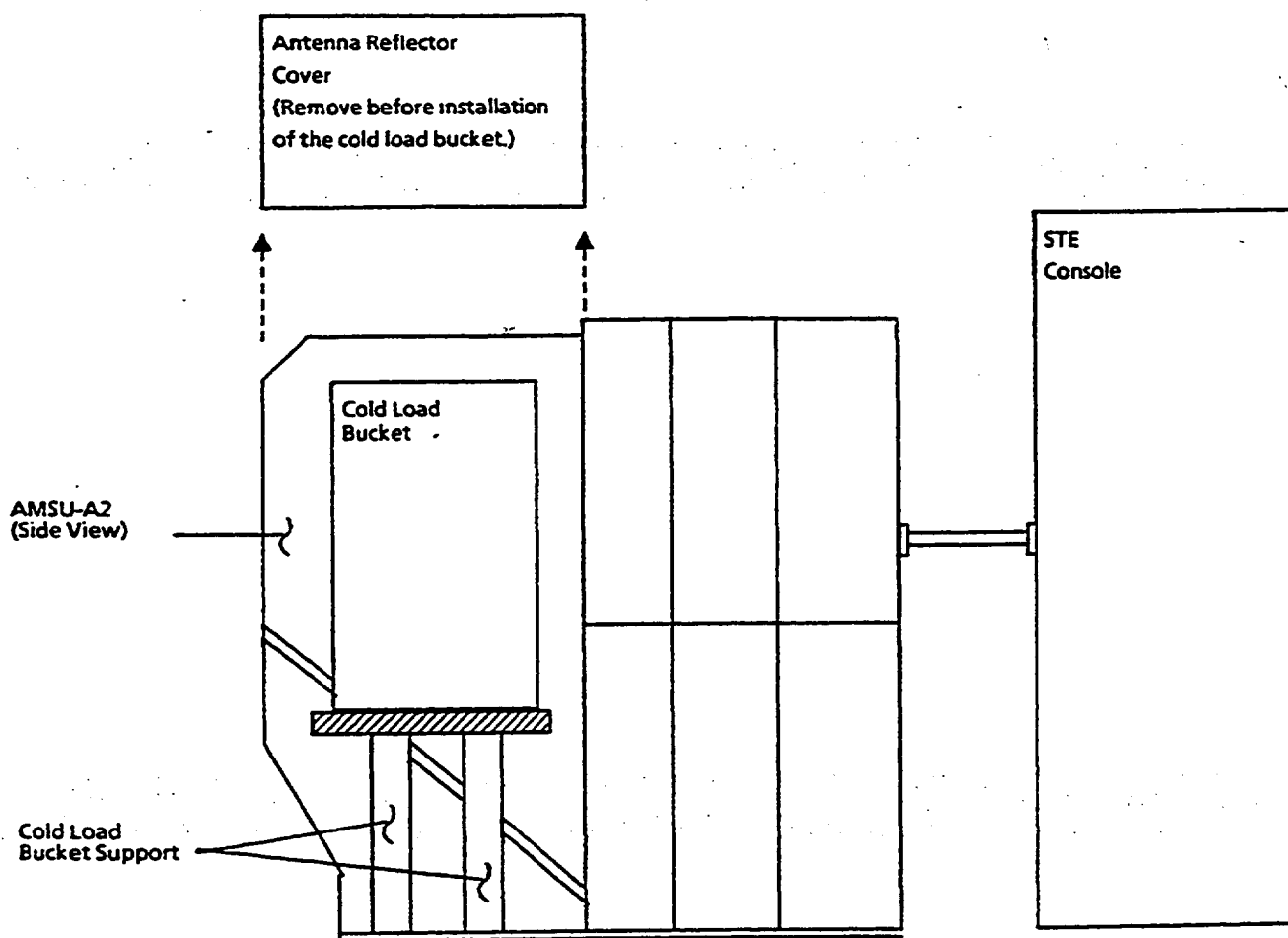


Figure 20. NEAT Setup Configuration

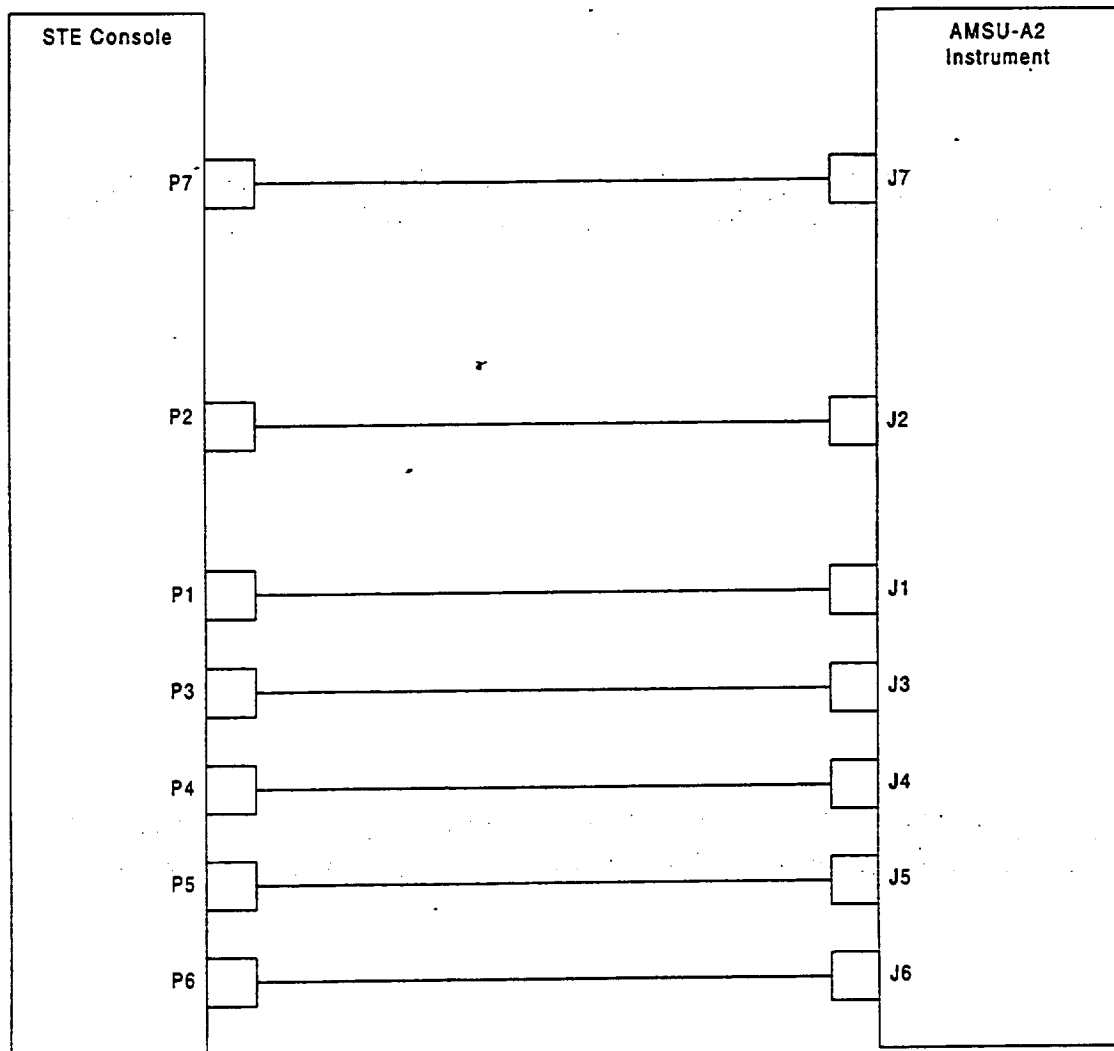


Figure 21. Relative NEAT Measurement Test Setup

3. Wait approximately one minute to verify that the NEAT results are displayed on the screen. Obtain a printout. Repeat step 2 four times and obtain four additional printouts. Average NEAT from these five data points. Enter the values on TDS 40. Attach the printouts to TDS 40 (Appendix B, TDS B-12 for LPT).
4. Remove the cryogenic loads and associated hardware.
5. Turn off the unit by using command "[11] MODULE TOTALLY OFF". Turn off +28 V power supply at the STE console.

✓3.2.4.5 *Transient susceptibility and power quality tests.* Perform the following procedures.

✓3.2.4.5.1 *Source voltage transient tests.* The tests that follow will be performed on the power lines listed in Table III. The tests will demonstrate that the AMSU-A2 instrument can operate within the specified parameters when the transients described in these tests appear on the power lines.

Table III. Power Line Source Voltage Transient Test Summary Induced Transient

Power Line	Connector Pin	Low Frequency	High Frequency
+28 Volt Main Bus	AMSU A2 J1-1	X	X
+28 Volt Pulse Load Bus	AMSU A2 J1-5	X	X
+28 Volt Analog Telemetry Bus	AMSU A2 J1-9	X	X

✓3.2.4.5.1.1 *Mode of operation.* Source voltage transient tests will be performed while the instrument is in the In Orbit Scenario mode.

✓3.2.4.5.1.2 *Test equipment.* See Table I for a list of equipment required to conduct this test.

✓3.2.4.5.2 *Test limits.* The test limits for the transient susceptibility and power quality tests are specified in the following paragraphs.

✓3.2.4.5.2.1 *+28 volt main bus.* The test limits for the +28 volt main bus are specified in the following paragraphs.

✓3.2.4.5.2.1.1 *Low frequency load induced turn-on transient.* The AMSU instrument shall be capable of normal operation during and after positive and negative transients are injected into the power line at the amplitude and duration specified in Figure 22.

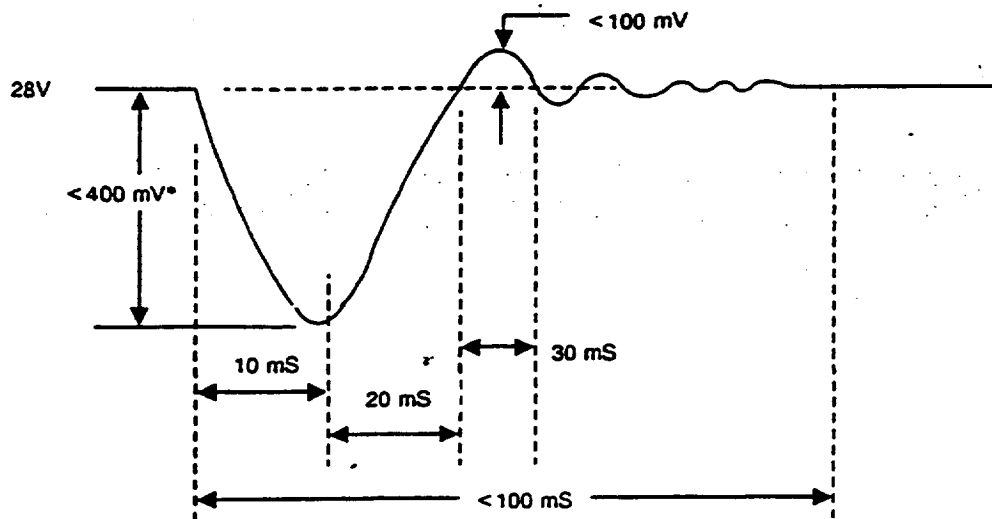
✓3.2.4.5.2.1.2 *High frequency load induced transient.* The AMSU instrument shall be capable of normal operation during and after positive and negative transients are injected into the power line at the amplitude and duration specified in Table IV.

Table IV. Maximum High Frequency Transient Amplitude and Duration

Peak Transient Amplitude (volts)	Transient Pulse Duration (milliseconds)
0.1	200-500
0.5	150-200
0.75	0-150

✓3.2.4.5.2.2 *+28 volt pulse load bus.* The test limits for the +28 volt pulse bus are specified in the following paragraphs.

✓3.2.4.5.2.2.1 *Low frequency load induced transient.* The AMSU instrument shall be capable of operation during and after positive and negative transients are injected into the power line at the amplitude and duration specified in Figure 23.



* Typical transients occurring a number of times per orbit are on the order of 200 mV zero-to-peak for a 1.5A load change.

Figure 22. Load Induced Transient (Main Bus)

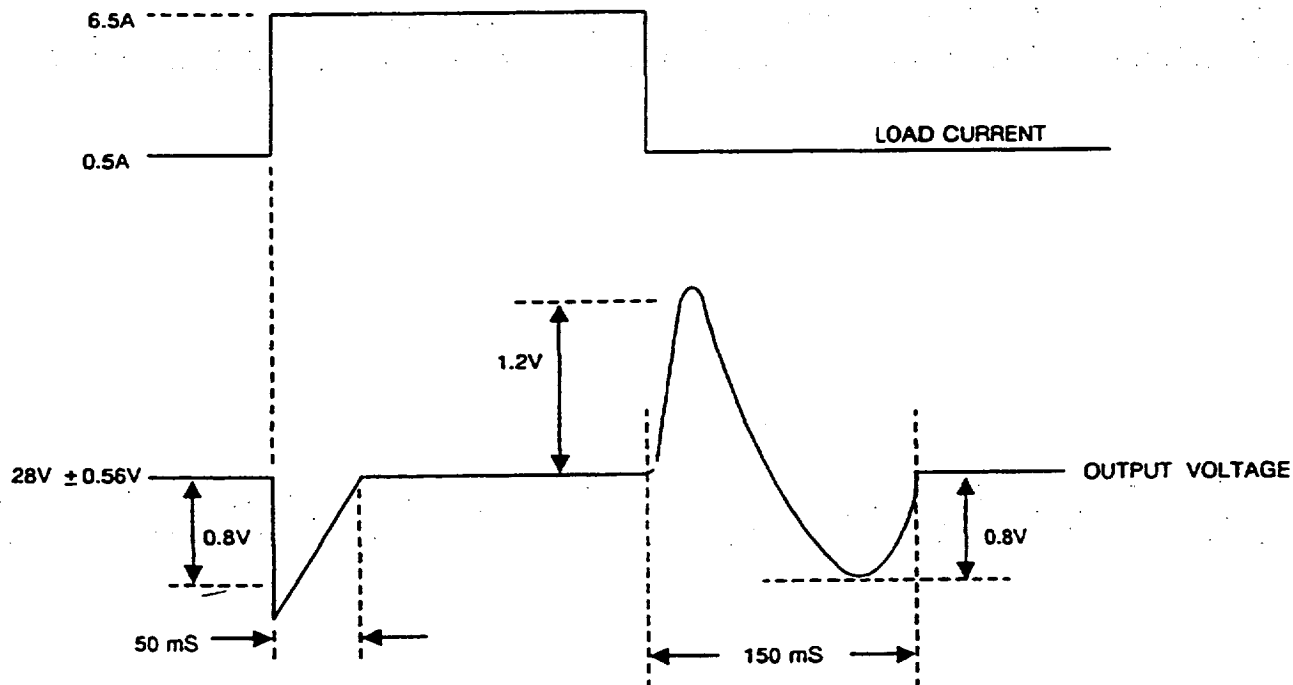


Figure 23. Load Induced Transient (Pulse Load)

✓3.2.4.5.2.2 *High frequency load induced transient.* The high frequency load induced transient present on the power lines shall conform to the amplitude and duration specified in Table IV.

✓3.2.4.5.2.3 *+28 volt analog telemetry bus.* The test limits for the +28 volt analog telemetry bus are specified in the following paragraphs.

✓3.2.4.5.2.3.1 *Low frequency load induced turn-on transient.* The low frequency induced turn-on transient injected in the Analog Telemetry Bus shall conform with the requirements stated in 3.2.4.5.2.1.1.

✓3.2.4.5.2.3.2 *High frequency load induced transient.* The high frequency load induced transient shall conform with the requirements in 3.2.4.5.2.1.2 and Table IV.

✓3.2.4.5.3 *Test procedure.* The test procedure for the transient susceptibility and power quality tests are specified in the following paragraphs.

✓3.2.4.5.3.1 *Preparation.* Perform the following procedures.

1. Connect the instrument under test for operation with the STE as shown in Figure 23. Group the power lines and connect the power supply as shown in Figure 24.
2. With the test sample in the off condition, adjust the test equipment to provide a transient pulse as shown in Figures 22, 23 and Table IV.
3. Note the adjustments needed to produce the transient pulse.
4. Turn off all the test equipment.
5. Connect the AMSU support equipment and perform a functional check.
6. When the unit is stabilized, perform the tests indicated in the subsequent paragraphs.

✓3.2.4.5.3.2 *+28 volt main and analog telemetry bus source voltage transients tests.* Perform the low frequency and high frequency transients tests indicated below.

✓3.2.4.5.3.2.1 *Low frequency load induced turn-on transient test.* Perform the following procedures.

1. Turn test equipment on.
2. Record and print two minor frames of all data (digital A, digital B, and telemetry) (see 3.2.4.3.4.1, steps 1 and 2 only).
3. Monitor transient pulse on the Main Bus and ensure that it is in accordance with the requirements of Figure 22. (Make adjustments, if necessary and repeat step 2.)
4. Record and print two minor frames of all data (digital A, digital B, and telemetry) (see 3.2.4.3.4.1, steps 1 and 2 only).
5. Record any deviations in the functional performance of the AMSU instrument on TDS 41.

✓3.2.4.5.3.2.2 *High frequency load induced transient test.* Perform the following procedures.

1. Connect the test equipment necessary to produce the three transient pulses specified in Table IV.
2. Record and print two minor frames of all data (digital A, digital B, and telemetry) (see 3.2.4.3.4.1, steps 1 and 2 only).

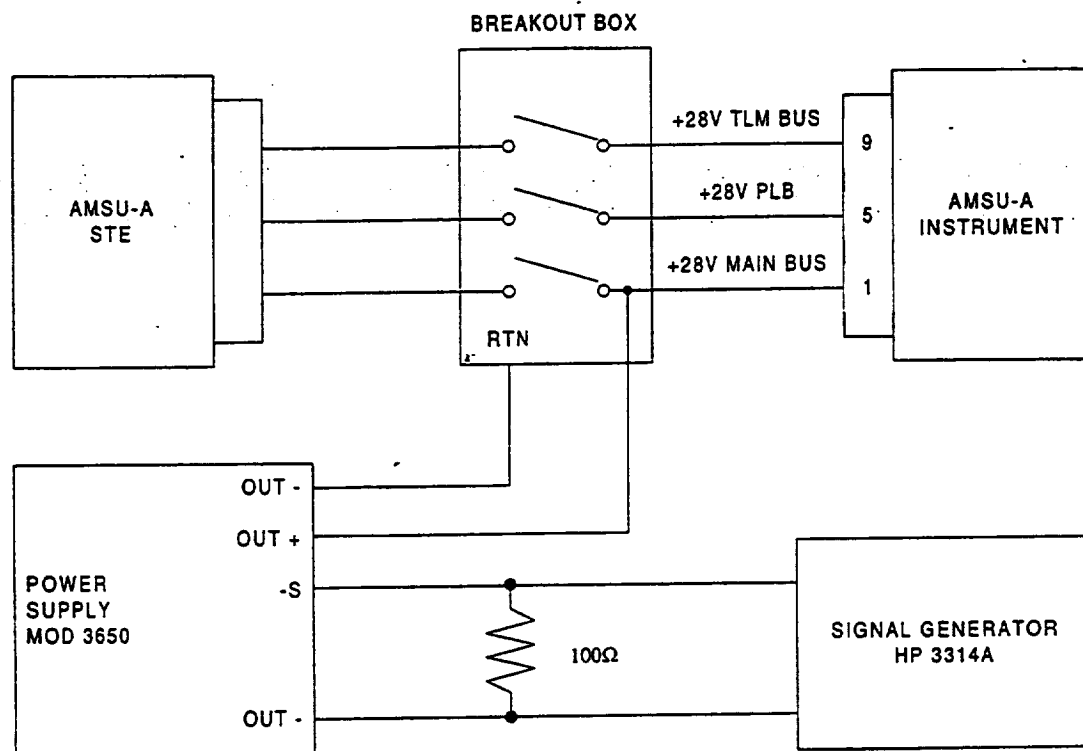


Figure 24. Test Setup for Load Induced Transient (Low or High Frequency)

3. Turn on test equipment and adjust the levels to those recorded in step 3 of 3.2.4.5.3.1.
4. Record and print two minor frames of all data (digital A, digital B, and telemetry) (see 3.2.4.3.4.1, steps 1 and 2 only).
5. Record any deviations in the functional performance of the AMSU instrument on TDS 41.

✓3.2.4.5.3.3 **+28 volt pulse load source voltage transients tests.** Perform the low frequency and high frequency transients tests indicated below.

✓3.2.4.5.3.3.1 **Low frequency load induced transient test.** Perform the following procedures.

1. Set up the equipment as shown in Figure 24.
2. Record and print two minor frames of all data (digital A, digital B, and telemetry) (see 3.2.4.3.4.1, steps 1 and 2 only).
3. Turn on test equipment and adjust to the levels recorded in 3.2.4.5.3.1 to produce a transient as shown in Figure 23.
4. Record and print two minor frames of all data (digital A, digital B, and telemetry) (see 3.2.4.3.4.1, steps 1 and 2 only).
5. Record any deviations in the functional performance of the AMSU instrument on TDS 41.

3.2.4.5.3.3.2 **High frequency load induced transient test.** Repeat steps 1 through 4 of 3.2.4.5.3.2.2 on the +28 volt pulse load power lines.

✓3.2.4.5.3.4 *+28 volt analog telemetry source voltage transient tests.* Perform the low frequency and high frequency transients tests indicated below.

✓3.2.4.5.3.4.1 *Low frequency load induced turn-on transient test.* Repeat steps 1 through 4 of 3.2.4.5.3.2.1 on the +28 volt analog telemetry power lines.

✓3.2.4.5.3.4.2 *High frequency load induced transient test.* Repeat steps 1 through 4 of 3.2.4.5.3.2.2 on the +28 volt analog telemetry power lines.

✓3.2.4.6 *Instrument feedback tests.* The instrument feedback tests contained in the following paragraphs will be performed on the power lines to verify the specified parameters.

✓3.2.4.6.1 *Test equipment.* The following equipment is required for the conduct of this test.

- a. Signal Analyzer HP 3562
- b. Current Probe, Tektronix A6303 and/or A6302
- c. Current Probe Amplifier, Tektronix P6302/AM503

✓3.2.4.6.2 *Test limits.* The test limits for the instrument feedback tests are specified in the following paragraphs.

3.2.4.6.2.1 *+28 volt main bus.* The test limits for the +28 volt main bus are specified in the following paragraphs.

3.2.4.6.2.1.1 *Load current ripple.* The peak-to-peak measured ripple current drawn by the AMSU-A2 unit shall not exceed 75 mA peak-to-peak, instrument in full scan mode. In addition, the frequency of the ripple current shall not exceed 100 kHz and/or be a sub-multiple of the frequency band $121.5 \text{ MHz} \pm 15 \text{ kHz}$.

3.2.4.6.2.2 *+28 volt pulse load bus.* The test limits for the +28 volt pulse bus are specified in the following paragraphs.

3.2.4.6.2.2.1 *Load current ripple.* The peak-to-peak amplitude of the load current ripple shall not exceed 86 mA peak-to-peak, instrument in warm cal mode, for A2. This ripple current is exclusive of repetitive pulses created by the motor, heaters, etc.

3.2.4.6.2.3 *+28 volt analog telemetry bus.* The test limits for the +28 volt analog telemetry bus are specified in the following paragraphs.

3.2.4.6.2.3.1 *Load current ripple.* The load current ripple peak-to-peak amplitude shall not exceed 0.22 mA for A2, instrument in full scan mode.

3.2.4.6.2.4 *+10 volts interface power bus.* The test limits for the +10 volt interface power bus are specified in the following paragraphs.

3.2.4.6.2.4.1 *Load current ripple.* The peak-to-peak measured ripple current generated by the instrument shall not exceed 1 mA peak-to-peak, instrument in full scan mode. In addition, the frequency of the ripple current shall not exceed 2.5 MHz.

3.2.4.6.3 *Test procedure.* The test procedure for the instrument feedback tests are specified in the following paragraphs.

3.2.4.6.3.1 *Preparation.* Perform the following procedures.

1. Connect the instrument under test as shown in Figure 25. Group the power lines with the appropriate current probe that is capable of clamping all the power lines in one bundle.

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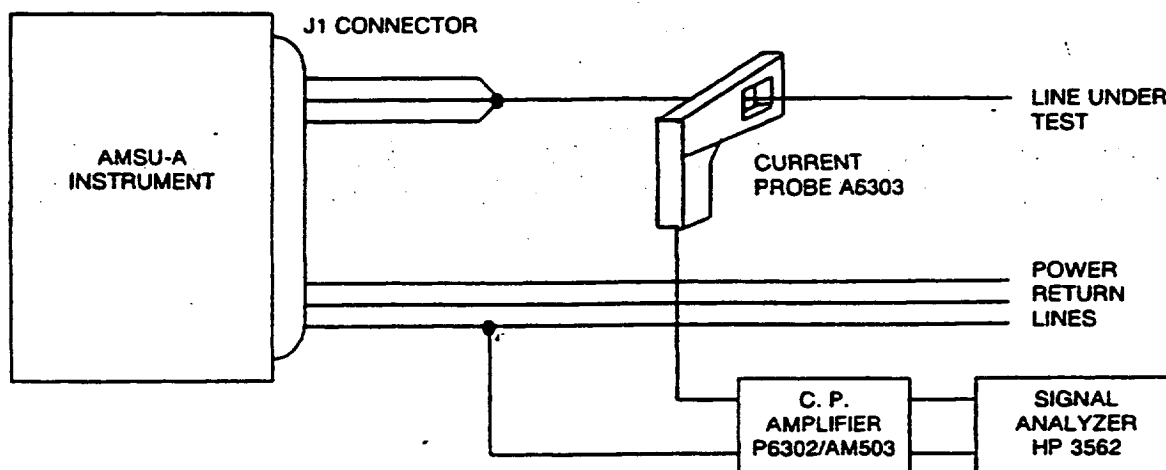


Figure 25. Test Setup for Instrument Feedback Tests

2. Connect the AMSU and support equipment for a functional check.

3.2.4.6.3.2 +28 volt main bus instrument feedback tests. Perform the load current ripple test as follows:

1. Clamp the current probe around the power lines of the +28 volt main bus.
2. Measure the peak-to-peak amplitude of the load current ripple present on the power lines and record the value in the appropriate location on TDS 42. Obtain a hard copy of the signal displayed on the signal analyzer.
3. Verify that the ripple complies with the requirement of 3.2.4.6.2.1.1.

3.2.4.6.3.3 +28 volt pulse load bus instrument feedback tests. Perform the load current ripple test as follows:

1. Clamp the current probe around the power lines of the +28 volt pulse load bus.
2. Measure the peak-to-peak amplitude of the load current ripple present on the power lines and record the value on TDS 42. Obtain a hard copy of the signal displayed on the signal analyzer.
3. Verify that the ripple complies with the requirement of 3.2.4.6.2.2.1.

3.2.4.6.3.4 +28V analog telemetry bus instrument feedback tests. Perform the load current ripple test as follows:

1. Clamp the current probe around the power lines of the +28V analog telemetry bus.
2. Measure the peak-to-peak amplitude of the load current ripple present on the power lines and record the value on TDS 42. Obtain a hard copy of the signal displayed on the signal analyzer.
3. Verify that the ripple complies with the requirement of 3.2.4.6.2.3.1.

3.2.4.6.3.5 +10V interface power bus instrument feedback tests. Perform the load current ripple test as follows:

1. Clamp the current probe around the power lines of the +10 volt interface power bus.
2. Measure the peak-to-peak amplitude of the load current ripple present on the power lines and record the value on TDS 42. Obtain a hard copy of the signal displayed on the signal analyzer.
3. Verify that the ripple complies with the requirement of 3.2.4.6.2.4.1.

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4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Aerojet Quality Assurance shall inspect in accordance with the requirements of this test procedure and S-480-79 and S-480-80. Quality Control shall verify all test set-ups prior to start of test. Bonded software shall be used for all tests and shall be obtained from Quality Control. Quality Control shall review all test data for conformance to success criteria. The test data shall include test limits. For tests that satisfy requirements from S-480-80 on protoflight and flight units, customer representatives shall be invited to witness tests and shall be invited to review the data and show approval on the test data sheets.

4.1.1 Test facilities. Unless otherwise specified, the examinations and tests described herein shall be conducted at Gencorp Aerojet, Azusa Operations, Azusa, CA.

4.1.2 Electrostatic Device (ESD) handling. All electronic hardware shall be handled in accordance with Aerojet Standard STD-2454.

4.2 Monitoring procedures. All tests in this procedure shall be witnessed by quality control.

4.2.1 Test equipment. Test equipment calibration procedures shall comply with the requirements of MIL-STD-45662.

4.2.2 Software. Bonded software shall be used at all times.

4.3 Monitoring procedures for materials. Not applicable.

4.4 Certification. Certification for handling ESD-sensitive equipment is required for all personnel working on the assembly and test of the AMSU-A instrument.

4.5 Test methods

4.5.1 Accept-reject criteria. The accept-reject criteria for each examination or test shall be as specified in the data sheets included in each phase of the applicable test procedure. The test results shall be recorded on the data sheets to demonstrate compliance with the applicable specification requirements. Methods of analysis shall be appropriate for the parameters being inspected. It shall be the responsibility of Aerojet to review the test data and determine conformance of the unit under test to the performance requirements contained in S-480-80 and this specification.

In the event of a failure during any phase of this test procedure, the test activity shall record the required information on the Test Anomaly Record (TAR) and alert the design assurance and quality engineers. Except for failures which only represent a limited out-of-tolerance condition for a particular parameter and are not expected to interfere with the balance of the testing and which are non-destructive, the testing must be stopped until a complete description of the observed anomaly failure is documented and a Failure Analysis Strategy (FAS) is formulated, documented, and implemented to preclude loss of information or evidence that may facilitate determining the failure cause. The full set of data from the referenced tests is required in order to formulate a plan of action. The cognizant reliability engineer, quality assurance engineer, and the system or responsible test engineer shall jointly develop the FAS which must be approved by Design Assurance and Quality Assurance. Analysis and reporting shall be performed per Aerojet procedures.

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5. PREPARATION FOR DELIVERY

This section is not applicable to this specification.

6. NOTES**6.1 Acronyms and abbreviations**

AMSU	Advanced Microwave Sounding Unit
ATB	Analog telemetry bus
AWG	American Wire Gage
BP	Beam Position
CAL	Calibrate
CPT	Comprehensive performance test
d	delta
DC	Direct current
DVM	Digital volt meter
EMI	Electromagnetic interference
ESD	Electrostatic Sensitive Device
EXT	External
FAS	Failure analysis strategy
GHz	Gigahertz
GIIS	General Instrument Interface Specification
GND	Ground
GSE	Ground Support Equipment
HTR	Heater
KHz	Kilohertz
LPT	Limited performance test
LSB	Least significant bit
MA	Milliamp
METSAT	Meteorological Satellite
MLB	Main load bus
MFG	Manufacturer
MMW	Millimeter wave
MS, MSEC	Millisecond
MSB	Most significant bit
MV	Millivolt
NEAT	Noise equivalent delta temperature
PFM	Protoflight Model
PLB	Pulse load bus
PLL	Phase lock loop
PLLO	Phase lock loop oscillator

POS	Position
PWR	Power
RTN	Return
STE	Special Test Equipment
SW	
TAR	Test Anomaly Record
TDS	Test Data Sheet
TLM	Telemetry
TM	Instrument Temperature
UIIS	Unique Instrument Interface Specification
Vdc	Volts, direct current
μ s	Microsecond

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APPENDIX A

TEST DATA SHEETS

Handwritten signature/initials

10. APPENDIX A

10.1 *Scope.* This appendix contains the test data sheets for all tests and inspections listed in section 3.

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TEST DATA SHEET 1 (SHEET 1 OF 9)
Grounding System Test (Paragraph 3.2.4.1)

J1 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J1-1	+28V MLB	> 100k	> 100K Ω	P
J1-2	+28V MLB	> 100k		P
J1-3	+28V MLB RTN	> 100k		P
J1-4	+28V MLB RTN	> 100k		P
J1-5	+28V PLB	> 100k		P
J1-6	+28V PLB	> 100k		P
J1-7	+28V PLB RTN	> 100k		P
J1-8	+28V PLB RTN	> 100k		P
J1-9	+28V TMB	> 100k		P
J1-10	28V TMB RTN	> 100k		P
J1-11	NO CONNECTION	> 100k	Y	P
J1-12	NO CONNECTION	> 100k	> 100K Ω	P
J1-13	CHASSIS GROUND (E1)	< 1	.21 Ω	P
J1-14	+28V MLB	> 100k	> 100K Ω	P
J1-15	+28V MLB	> 100k		P
J1-16	+28V MLB RTN	> 100k		P
J1-17	+28V MLB RTN	> 100k		P
J1-18	+28V PLB	> 100k		P
J1-19	+28V PLB	> 100k		P
J1-20	+28V PLB RTN	> 100k		P
J1-21	+28V PLB RTN	> 100k		P
J1-22	+28V TMB	> 100k		P
J1-23	28V TMB RTN	> 100k		P
J1-24	SAFETY HTR PWR	> 100k	Y	P
J1-25	SAFETY HTR RTN	> 100k	> 100K Ω	P

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23 Jun 98

TEST DATA SHEET 1 (Sheet 2 of 9)
Grounding Interface Test (Paragraph 3.2.4.1)

My H/ 53
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J2 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J2-1	Chassis Ground (E2)	< 1	.13 Ω	P
J2-2	DATA CLOCK (C1)	> 100k	> 100K Ω	P
J2-3	Signal Return	> 100k		P
J2-4	No Connection	> 100k		P
J2-5	DIGITAL A DATA OUT	> 100k		P
J2-6	DATA ENABLE (A1)	> 100k		P
J2-7	8 SEC SYNC PULSE	> 100k		P
J2-8	No Connection	> 100k		P
J2-9	No Connection	> 100k	> 100K Ω	P

J3 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J3-1	1.248 MHz CLK	> 100k	> 100K Ω	P
J3-2	1.248 MHz CLK RTN	> 100k	> 100K Ω	P
J3-3	Chassis GND (E3)	< 1	.91 Ω	P

J5 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J5-1	Chassis Ground (E5)	< 1	.26 Ω	P
J5-2	MODULE PWR IND	> 100k	> 100K Ω	P
J5-3	COLD CAL POS MSB (OUT)	> 100k		P
J5-4	No Connection	> 100k		P
J5-5	COMP MTR IND	> 100k		P
J5-6	ANT IN COLD CAL POS	> 100k		P
J5-7	No Connection	> 100k		P
J5-8	No Connection	> 100k		P
J5-9	SURV HTR ON/OFF	> 100k		P
J5-10	No Connection	> 100k		P
J5-11	COLD CAL POS LSB (OUT)	> 100k		P
J5-12	SCANNER ON PWR IND	> 100k		P
J5-13	ANT IN WARM CAL POS	> 100k		P
J5-14	ANT AT NADIR POS	> 100k		P
J5-15	FULL SCAN MODE	> 100k	> 100K Ω	P

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TEST DATA SHEET 1 (Sheet 3 of 9)
Grounding System Test (Paragraph 3.2.4.1)

J4 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J4-1	Chassis Ground (E4)	< 1	.13 Ω	P
J4-2	MODULE PWR DISCONN	> 100k	> 100K Ω	P
J4-3	SURVIVAL HTR ON	> 100k		P
J4-4	MODULE TOTALLY OFF	> 100k		P
J4-5	COMP MTR ON/OFF	> 100k		P
J4-6	ANT AT COLD CAL POS	> 100k		P
J4-7	No Connection	> 100k		P
J4-8	ANT AT NADIR POS	> 100k		P
J4-9	COLD CAL POS MSB (IN)	> 100k		P
J4-10	No Connection	> 100k		P
J4-11	No Connection	> 100k		P
J4-12	+10V INTERFACE BUS	> 100k		P
J4-13	10V INTERFACE BUS RTN	> 100k		P
J4-14	MODULE PWR CONN	> 100k		P
J4-15	SURVIVAL HTR OFF	> 100k		P
J4-16	SCANNER PWR ON/OFF	> 100k		P
J4-17	ANT AT WARM CAL POS	> 100k		P
J4-18	FULL SCAN	> 100k		P
J4-19	COLD CAL POS LSB (IN)	> 100k		P
J4-20	No Connection	> 100k		P
J4-21	No Connection	> 100k		P
J4-22	No Connection	> 100k		P
J4-23	No Connection	> 100k		P
J4-24	+10V INTERFACE BUS	> 100k		P
J4-25	10V INTERFACE BUS RTN	> 100k	> 100K Ω	P





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TEST DATA SHEET 1 (Sheet 4 of 9)
Grounding System Test (Paragraph 3.2.4.1)

8/17/98

J6 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J6-1	Chassis GND (E6)	< 1	.17 Ω	P
J6-2	RF SHELF TEMP	> 100k	> 100K Ω	P
J6-3	COMP. MTR. TEMP	> 100k		P
J6-4	WARM LOAD TEMP	> 100k		P
J6-5	No Connection	> 100k		P
J6-6	No Connection	> 100k		P
J6-7	No Connection	> 100k		P
J6-8	SCAN MTR CURR	> 100k		P
J6-9	+15V ANT DR MON	> 100k		P
J6-10	+15V ANT DR MON	> 100k		P
J6-11	+15V SIG PROC MON	> 100k		P
J6-12	+15V SIG PROC MON	> 100k		P
J6-13	L.O. #1 MON	> 100k		P
J6-14	No Connection	> 100k		P
J6-15	No Connection	> 100k		P
J6-16	No Connection	> 100k		P
J6-17	No Connection	> 100k		P
J6-18	No Connection	> 100k		P
J6-19	No Connection	> 100k		P
J6-20	28V TMB RTN	> 100k		P
J6-21	No Connection	> 100k		P
J6-22	SCAN MTR TEMP	> 100k		P
J6-23	No Connection	> 100k		P
J6-24	No Connection	> 100k		P
J6-25	No Connection	> 100k		P
J6-26	No Connection	> 100k		P
J6-27	COMP MTR CURR	> 100k		P
J6-28	-15V ANT DR MON	> 100k		P
J6-29	-15V SIG PROC MON	> 100k		P
J6-30	L.O. #2 MON	> 100k		P
J6-31	No Connection	> 100k		P
J6-32	No Connection	> 100k		P
J6-33	No Connection	> 100k		P
J6-34	MIXER/AMP MON	> 100k		P
J6-35	No Connection	> 100k		P
J6-36	No Connection	> 100k		P
J6-37	No Connection	> 100k	> 100K Ω	P



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TEST DATA SHEET 1 (Sheet 5 of 9)
Grounding System Test (Paragraph 3.2.4.1)

J7 of Spacecraft Interface				
From Chassis Ground to	Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J7-1	Chassis GND (E7)	< 1	.11 Ω	P
J7-2	No Connection	> 100k	> 100k Ω	P
J7-3	No Connection	> 100k		P
J7-4	No Connection	> 100k		P
J7-5	15V RTN (2/3)	> 100k		P
J7-6	DUMP TP	> 100k		P
J7-7	No Connection	> 100k		P
J7-8	CH1 ANALOG OUT TP	> 100k		P
J7-9	CH2 ANALOG OUT TP	> 100k		P
J7-10	No Connection	> 100k		P
J7-11	No Connection	> 100k		P
J7-12	No Connection	> 100k		P
J7-13	No Connection	> 100k		P
J7-14	No Connection	> 100k		P
J7-15	No Connection	> 100k		P
J7-16	No Connection	> 100k		P
J7-17	GSE CMD LSB	> 100k		P
J7-18	GSE CMD MSB-1	> 100k		P
J7-19	+5VDC GSE INTERLOCK A	> 100k		P
J7-20	No Connection	> 100k		P
J7-21	No Connection	> 100k		P
J7-22	No Connection	> 100k		P
J7-23	I/H TP	> 100k		P
J7-24	No Connection	> 100k		P
J7-25	No Connection	> 100k		P
J7-26	15V RTN (2/3)	> 100k		P
J7-27	No Connection	> 100k		P
J7-28	No Connection	> 100k		P
J7-29	No Connection	> 100k		P
J7-30	No Connection	> 100k		P
J7-31	No Connection	> 100k		P
J7-32	No Connection	> 100k		P
J7-33	No Connection	> 100k		P
J7-34	No Connection	> 100k		P
J7-35	GSE CMD MSB	> 100k		P
J7-36	5V RTN (1)	> 100k		P
J7-37	+5VDC GSE INTERLOCK B	> 100k	> 100k Ω	P

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AE-26156/4Q
23 Jun 98

TEST DATA SHEET 1 (Sheet 6 of 9)
Grounding Interface Test (Paragraph 3.3.2, Step 2)

My 4/13/98

Source Pin	Destination Pin	Source Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J1-1	J1-2	+28V MLB	< 1	.26 Ω	P
J1-1	J1-14	+28V MLB	< 1	.49 Ω	P
J1-1	J1-15	+28V MLB	< 1	.26 Ω	P
J1-3	J1-4	28V MLB RTN	< 1	.21 Ω	P
J1-3	J1-16	28V MLB RTN	< 1	.25 Ω	P
J1-3	J1-17	28V MLB RTN	< 1	.30 Ω	P
J1-5	J1-6	+28V PLB	< 1	.25 Ω	P
J1-5	J1-18	+28V PLB	< 1	.28 Ω	P
J1-5	J1-19	+28V PLB	< 1	.26 Ω	P
J1-7	J1-8	28V PLB RTN	< 1	.23 Ω	P
J1-7	J1-20	28V PLB RTN	< 1	.24 Ω	P
J1-7	J1-21	28V PLB RTN	< 1	.25 Ω	P
J1-9	J1-22	+28V TMB	< 1	.19 Ω	P
J1-10	J1-23	28V TMB RTN	< 1	.15 Ω	P
J1-10	J6-20	28V TMB RTN	< 1	.41 Ω	P
J4-12	J4-24	+10V INTERFACE BUS	< 1	.27 Ω	P
J4-13	J4-25	10V INTERFACE BUS RTN	< 1	.24 Ω	P
J1-1	J1-3	+28V MLB	> 100k	> 100k Ω	P
J1-1	J1-5	+28V MLB	> 100k	> 100k Ω	P
J1-1	J1-7	+28V MLB	> 100k		P
J1-1	J1-9	+28V MLB	> 100k		P
J1-1	J1-10	+28V MLB	> 100k		P
J1-1	J1-24	+28V MLB	> 100k		P
J1-1	J1-25	+28V MLB	> 100k		P
J1-1	J2-3	+28V MLB	> 100k		P
J1-1	J4-12	+28V MLB	> 100k		P
J1-1	J4-13	+28V MLB	> 100k		P
J1-3	J1-5	28V MLB RTN	> 100k		P
J1-3	J1-7	28V MLB RTN	> 100k		P
J1-3	J1-9	28V MLB RTN	> 100k		P
J1-3	J1-10	28V MLB RTN	> 100k		P
J1-3	J1-24	28V MLB RTN	> 100k		P
J1-3	J1-25	28V MLB RTN	> 100k		P
J1-3	J2-3	28V MLB RTN	> 100k		P
J1-3	J4-12	28V MLB RTN	> 100k		P
J1-3	J4-13	28V MLB RTN	> 100k	> 100k Ω	P



23 Jun 98



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TEST DATA SHEET 1 (Sheet 7 of 9)
Grounding Interface Test (Paragraph 3.3.2, Step 2)

Source Pin	Destination Pin	Source Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J1-5	J1-7	+28V PLB	> 100k	>100K Ω	P
J1-5	J1-9	+28V PLB	> 100k		P
J1-5	J1-10	+28V PLB	> 100k		P
J1-5	J1-24	+28V PLB	> 100k		P
J1-5	J1-25	+28V PLB	> 100k		P
J1-5	J2-3	+28V PLB	> 100k		P
J1-5	J4-12	+28V PLB	> 100k		P
J1-5	J4-13	+28V PLB	> 100k		P
J1-7	J1-9	28V PLB RTN	> 100k		P
J1-7	J1-10	28V PLB RTN	> 100k		P
J1-7	J1-24	28V PLB RTN	> 100k		P
J1-7	J1-25	28V PLB RTN	> 100k		P
J1-7	J2-3	28V PLB RTN	> 100k		P
J1-7	J4-12	28V PLB RTN	> 100k		P
J1-7	J4-13	28V PLB RTN	> 100k		P
J1-9	J1-10	+28V TMB	> 100k		P
J1-9	J1-24	+28V TMB	> 100k		P
J1-9	J1-25	+28V TMB	> 100k		P
J1-9	J2-3	+28V TMB	> 100k		P
J1-9	J4-12	+28V TMB	> 100k		P
J1-9	J4-13	+28V TMB	> 100k		P
J1-10	J1-24	28V TMB RTN	> 100k		P
J1-10	J1-25	28V TMB RTN	> 100k		P
J1-10	J2-3	28V TMB RTN	> 100k		P
J1-10	J4-12	28V TMB RTN	> 100k		P
J1-10	J4-13	28V TMB RTN	> 100k		P
J1-24	J1-25	SAFETY HTR PWR	> 100k		P
J1-24	J2-3	SAFETY HTR PWR	> 100k		P
J1-24	J4-12	SAFETY HTR PWR	> 100k		P
J1-24	J4-13	SAFETY HTR PWR	> 100k		P
J1-25	J2-3	SAFETY HTR PWR RTN	> 100k		P
J1-25	J4-12	SAFETY HTR PWR RTN	> 100k		P
J1-25	J4-13	SAFETY HTR PWR RTN	> 100k		P
J2-3	J4-12	SIGNAL RTN	> 100k		P
J2-3	J4-13	SIGNAL RTN	> 100k		P
J4-12	J4-13	+10V INTERFACE BUS	> 100k	>100K Ω	P





My 8/1

TEST DATA SHEET 1 (Sheet 8 of 9)
Grounding Interface Test (Paragraph 3.3.2, Step 2)

Source Pin	Destination Pin	Source Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J2-2	J4-13	DATA CLOCK (C1)	> 2k	> 100K Ω	P
J2-5	J4-13	DIGITAL A DATA OUT	> 2k	> 2K Ω	P
J2-6	J4-13	DATA ENABLE (A1)	> 2k		P
J2-7	J4-13	8 SEC SYNC PULSE	> 2k		P
J3-1	J4-13	1.248 MHZ CLK	> 2k		P
J3-2	J4-13	1.248 MHZ CLK RTN	> 2k		P
J4-2	J4-13	MODULE PWR DISCONN	> 2k		P
J4-3	J4-13	SURVIVAL HTR ON	> 2k		P
J4-4	J4-13	MODULE TOTALLY OFF	> 2k		P
J4-5	J4-13	COMP MTR ON/OFF	> 2k		P
J4-6	J4-13	ANT AT COLD CAL POS	> 2k		P
J4-8	J4-13	ANT AT NADIR POS	> 2k		P
J4-9	J4-13	COLD CAL POS MSB (IN)	> 2k		P
J4-14	J4-13	MODULE PWR CONN	> 2k		P
J4-15	J4-13	SURVIVAL HTR OFF	> 2k		P
J4-16	J4-13	SCANNER PWR ON/OFF	> 2k		P
J4-17	J4-13	ANT AT WARM CAL POS	> 2k		P
J4-18	J4-13	FULL SCAN	> 2k		P
J4-19	J4-13	COLD CAL POS LSB (IN)	> 2k		P
J5-2	J4-13	MODULE PWR IND	> 2k		P
J5-3	J4-13	COLD CAL POS MSB	> 2k		P
J5-5	J4-13	COMP MTR IND	> 2k		P
J5-6	J4-13	ANT IN COLD CAL POS	> 2k		P
J5-9	J4-13	SURV HTR ON/OFF	> 2k		P
J5-11	J4-13	COLD CAL POS LSB	> 2k		P
J5-12	J4-13	SCANNER ON PWR IND	> 2k		P
J5-13	J4-13	ANT IN WARM CAL POS	> 2k		P
J5-14	J4-13	ANT IN NADIR POS	> 2k		P
J5-15	J4-13	FULL SCAN MODE	> 2k	> 2K Ω	P



TEST DATA SHEET 1 (Sheet 9 of 9)
Grounding Interface Test (Paragraph 3.3.2, Step 2)

Source Pin	Destination Pin	Source Pin Description	Required Resistance (Ohms)	Measured Value (Ohms)	Pass/Fail
J6-8	J4-13	SCAN MTR CURR	> 2k	> 2K Ω	P
J6-9	J4-13	+15V ANT DR MON	> 2k		P
J6-10	J4-13	+5V ANT DR MON	> 2k		P
J6-11	J4-13	+15V SIG PROC MON	> 2k		P
J6-12	J4-13	+5V SIG PROC MON	> 2k		P
J6-13	J4-13	L.O. #1 MON	> 2k		P
J6-20	J4-13	28V TMB RTN	> 2k		P
J6-22	J4-13	SCAN MTR TEMP	> 2k		P
J6-27	J4-13	COMP MTR CURR	> 2k		P
J6-28	J4-13	-15V ANT DR MON	> 2k		P
J6-29	J4-13	-15V SIG PROC MON	> 2k		P
J6-30	J4-13	L.O. #2 MON	> 2k		P
J6-34	J4-13	MIXER/AMP MON	> 2k		P
J6-2	J1-10	RF SHELF TEMP	> 2k		P
J6-3	J1-10	COMP MTR TEMP	> 2k		P
J6-4	J1-10	WARM LOAD TEMP	> 2k	> 2K Ω	P

AMSU
3
3517

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

LPT



Test Systems/Engineer

Quality Control

8-11-98

Date

8-13-98

Date

W. Gallegos 8-13-98

Customer Representative
(Flight Hardware Only)

Date



AE-26156/40 13
23 Jun 98

8/13/98

TEST DATA SHEET 2
+28 MLB Turn-On Transient (Paragraph 3.2.4.2.1.1)

At 28.56 VDC

Step	Parameter	Measured / Calculated	Required	Pass / Fail
7	Peak Current	4.8 Amps	< 5.25 Amps	P
7	Pulse Width	59.05 msec	< 77.5 ms	P
7	Rate of Change (Slope) di/dt	229 mA/μsec	< 575 mA / μs	P

At 27.44 VDC

Step	Parameter	Measured / Calculated	Required	Pass / Fail
7	Peak Current	4.553 Amps	< 5.25 Amps	P
7	Pulse Width	57.7 msec	< 77.5 ms	P
7	Rate of Change (Slope) di/dt	164 mA/μsec	< 575 mA / μs	P

At 28.00 VDC

Step	Parameter	Measured / Calculated	Required	Pass / Fail
7	Peak Current	4.553 Amps	< 5.25 Amps	P
7	Pulse Width	57.82 msec	< 77.5 ms	P
7	Rate of Change (Slope) di/dt	276.7 mA/μsec	< 575 mA / μs	P

METSAT / AMSU A2 System CPT:

Shop Order: 484113 S/N: 105

Circle Test: 1st CPT Final CPT Sub CPT _____

Part Number: 1331200-2-IT

8-13-98
Date

D. Gallegos
Customer Representative
(Flight Hardware Only)

System Test Engineer:



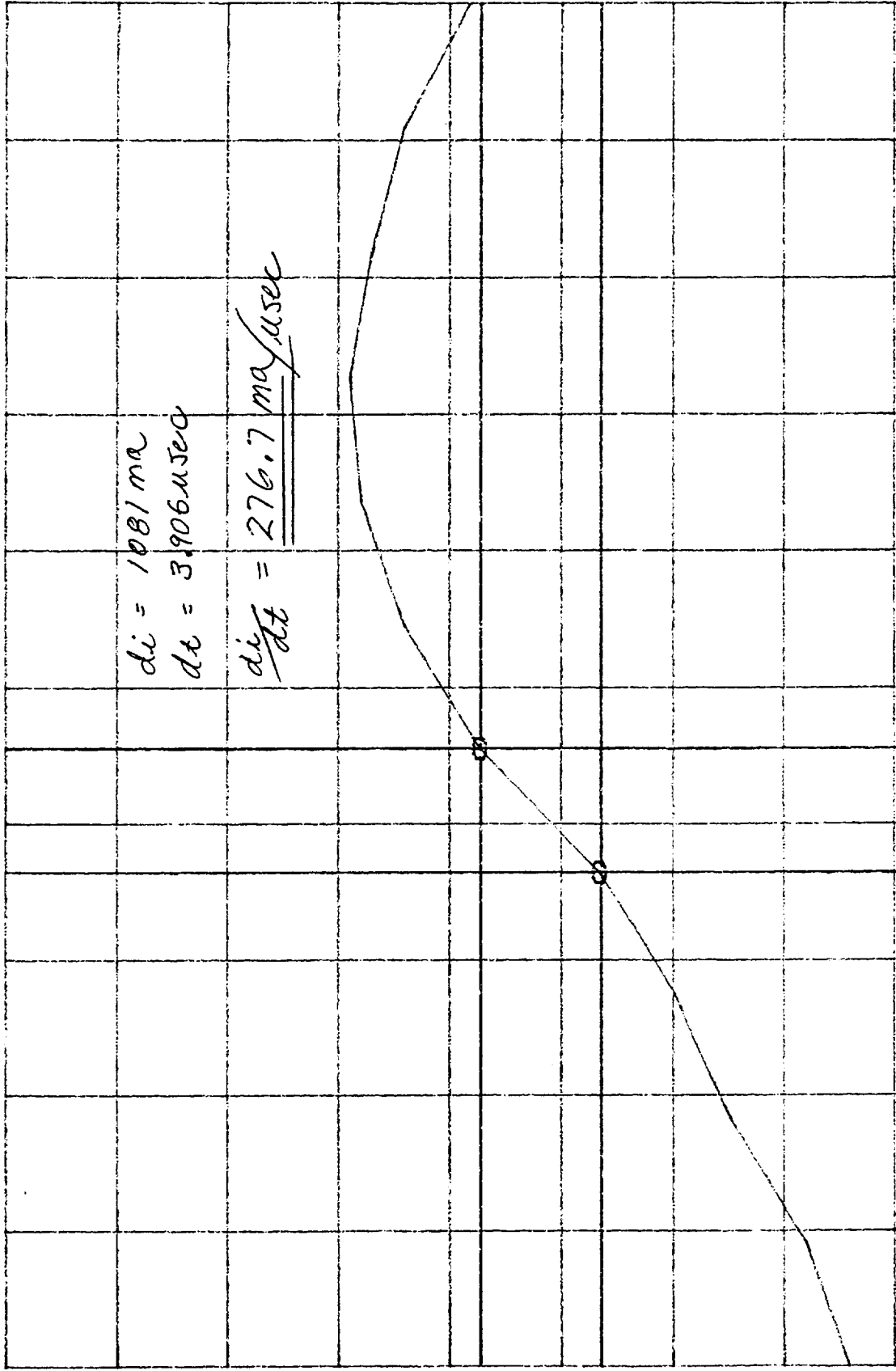
8-13-98
Date

Quality Assurance:

[Signature]
8-13-98
Date

X=9.375ms ΔX=3.906μs Y=27.2363m ΔY=10.81mV
 Y0=16.5426m ΔY0=10.7mV

CAP TIM BUF



FxdXY 9.35937m 28.0Vdc Turn-ON ~ MLB Sec

9.40234m

Test Eng: MSU 8 BIT

Date: 8-12-98

S/O: 484113 324211.5kto 10

Part: 1331200-2-17 SN: 105

7A 268

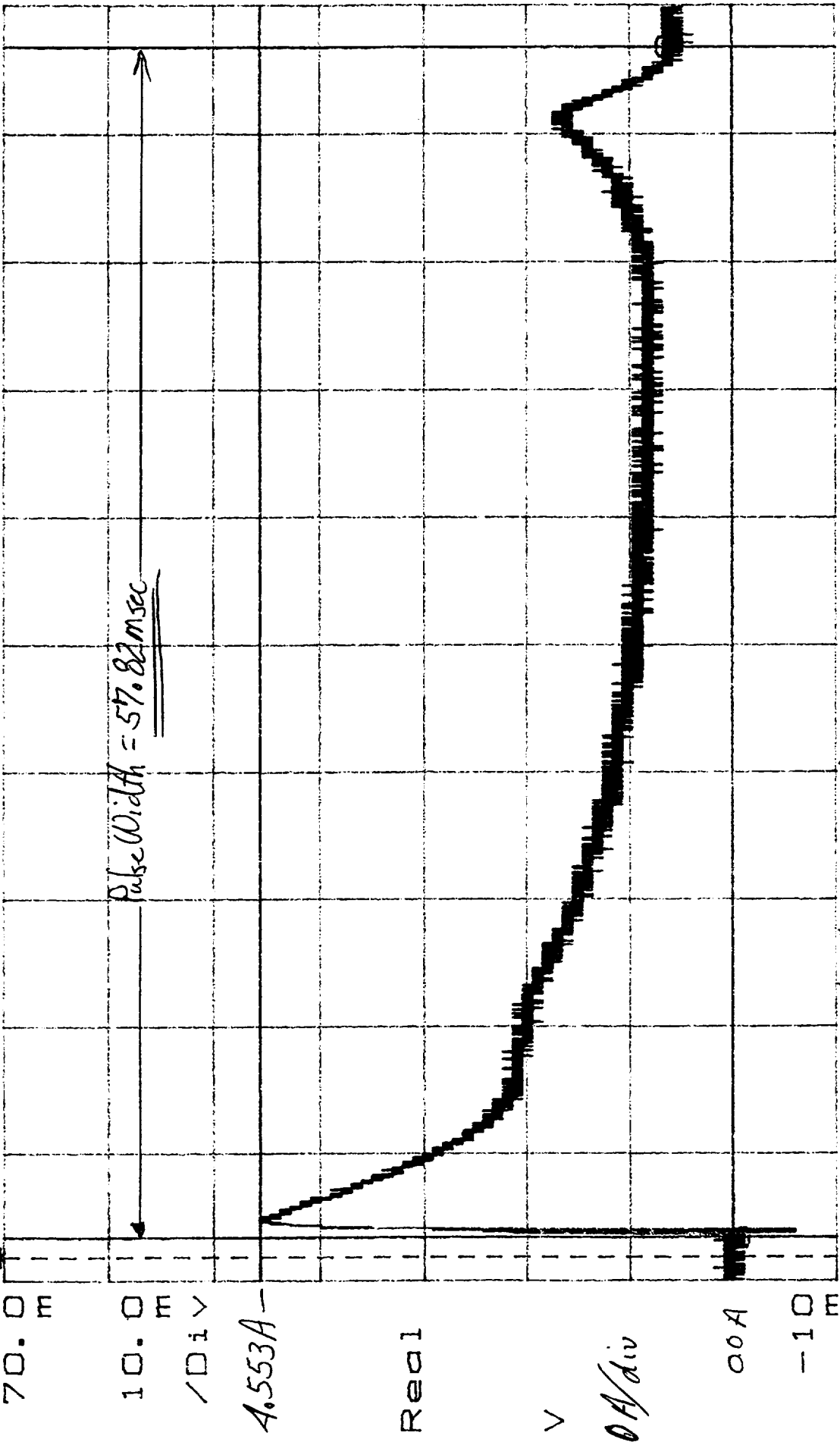
Quality:

AUG 19 98

X=8.926mS ΔX=57.82mS
Y=-973.09μ ΔY=7.785mV

Y=84.8472μ ΔY=45.53mV

CAP TIM BUF



FXdXY 6.83m 28.00 Vdc "Turn-ON" MLB Sec

68.7m

S/O: 484113 32.A.2.1.1 -Step 10

Test Eng:

Date: 8-12-98

PA: 1331200-2-11 SN: 105

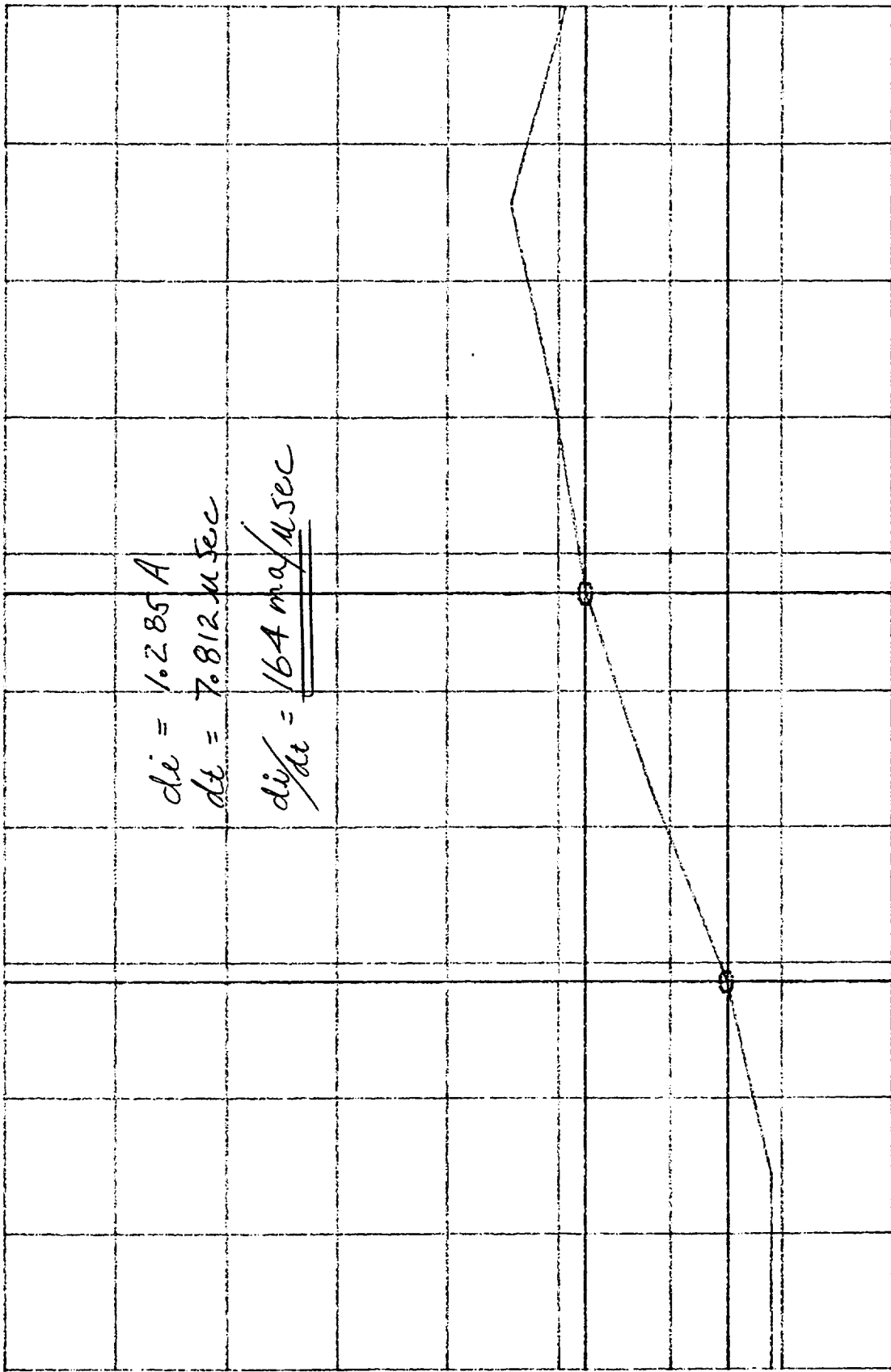
Quality: 7A 269

AUG 13 '98

X=9.246mS ΔX=7.812μS
Y=4.86547m ΔY=12.65mV

Y=17.6364m ΔY=12.85mV

CAP TIM BUF



10.0 m
/Div

Real

10A/div

V

20A

-10 m

FxdXY 9.23828m 27.44 Vdc Turn-ON' MLB Sec

9.26562m

S/O: 484113

324.2.1.1 Step 9

Test Eng:

P/N: 1331200-2-17 SW: 105

Quality:

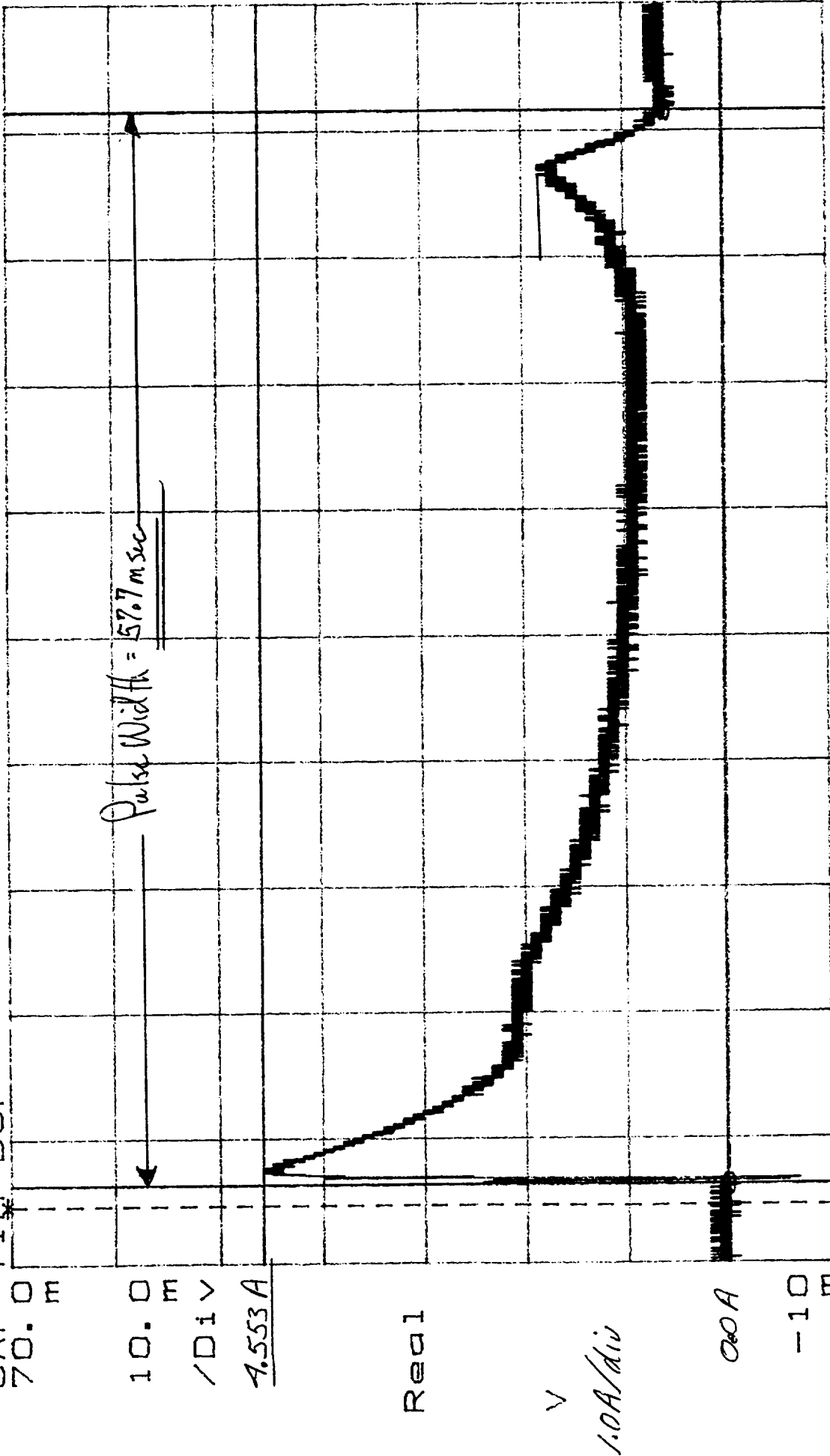
7A
260

JUL 18 '98

Date: 8-12-98

X=9.098ms ΔX=57.7ms Y=45.7091m ΔY=45.53mV
 Y=0.0 ΔY=5.839mV

CAP TIM BUF



72.5m
 Date: 8-12-98
 Test Eng.
 Quality:

7A 268

AUG 13 1998

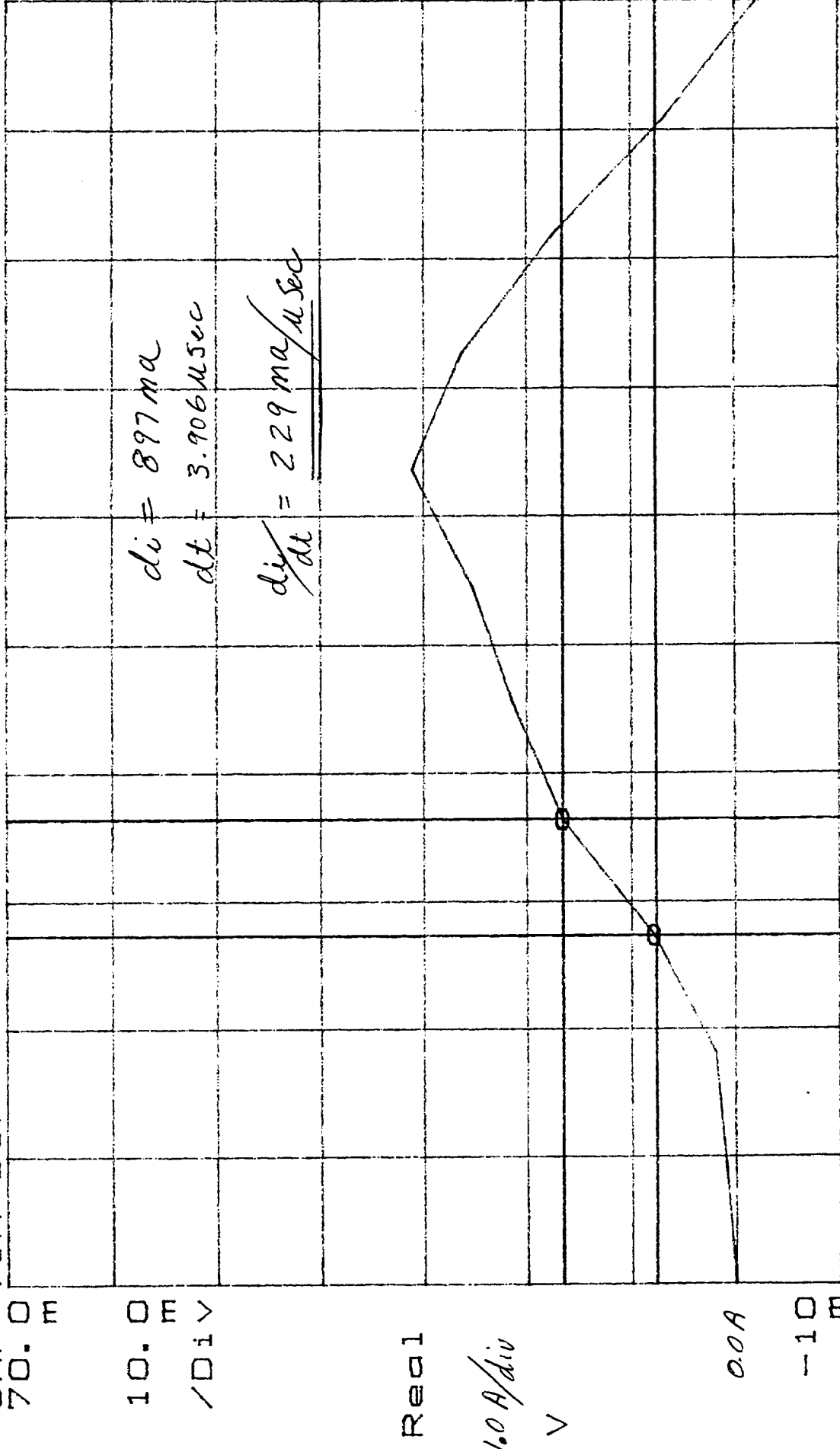
27.7 + Vdc Turn-ON 100μs Sec
 3.2.4.2.1.1 Step 9

510: 484113

PN: 133127-2-17 SN: 105

$X=8.93\text{ms}$ $\Delta X=3.906\mu\text{s}$ $Y=7.55151\text{m}$ $\Delta Y=8.97\text{mV}$
 $Y_0=7.78475\text{m}$ $\Delta Y_0=8.758\text{mV}$

CAP TIM BUF



$F \times dX Y$ 8.91797m d_i/d_t 28.56Vdc Turn-on Sec
3.24.2.1.1 Step 3 ML8

8.96094m

AMSU
B
BEIT

Test Eng:

Date: 8-12-98

7A
268

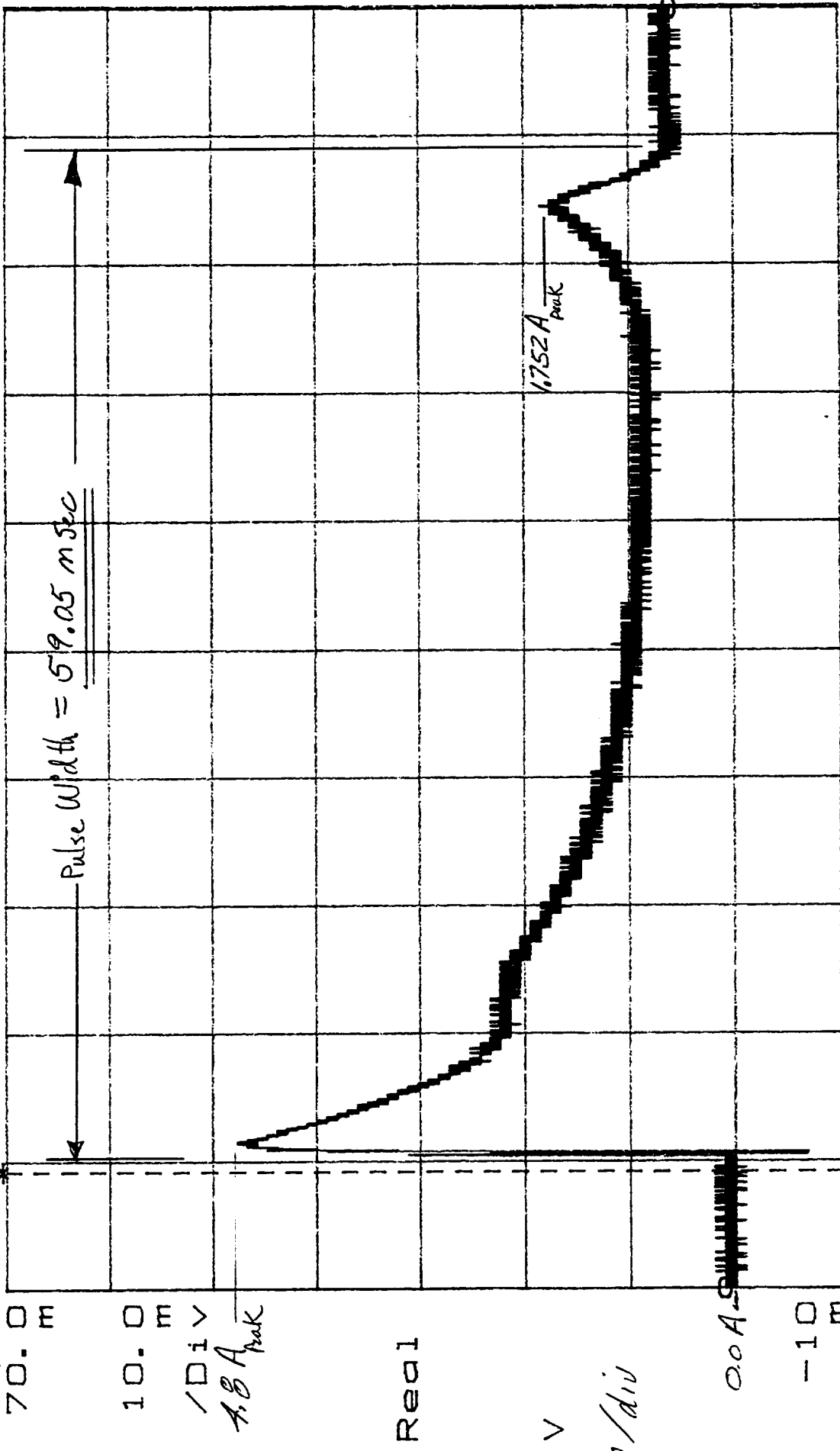
Quality:

SN: 484113

PN: 1331200-2-17 SN: 105

X=1.254ms ΔX=73.21ms
 Y=973.094μ ΔY=4.865mV

CAP TIM BUF



FxdY 1.25m +28V MLB "Turn-on" MLBsec

3.2.4.2.1.1. Step 3.

+28.56 Vdc ± .05 Vdc

74.5m

ASU
B
SEI

Date: 8-12-98

Test Eng: [Signature]
 Quality: [Signature]

PN: 133/200-2-17 SN: 105

(

TAR NO. 006397

TEST ANOMALY RECORD

SYSTEM NO.

DATE 8-12-98 Page 1 of

SPEC (MPI, AE, ...)

REV

CUMULATIVE TIME hrs min

ELAPSED TIME hrs min

ASSY NAME AMSA METSAT A2

ASSY P/N 1331200-2-17 REV RA

ASSY S/N 105

S/O NO. 484113

TEST OPER NO. 0720 STEP

(REF. MPI 00-005)

First time for failure at this point? YES ☒ NO ☐

Test Proc Para No. where failure occurred AE 26156/48

Type of test (EXP: T/C 1 FFT HOT) 1ST CPT

Para Step No. 324.2.1.1 Step 7

DESCRIPTION OF ANOMALY (LIST EXPECTED AND RECORDED VALUES):

Testing Pulse Width of +28V ML 57-59 msec was observed. TDS 2 Requires 17 msec.

TECH/TE NOTIFIED TEAM LEADER NAME Al Nieto

DEFECT CODE

TECH

DATE

INSTRUCTIONS:

OPER. STATION

8000 Test

Test to notify inspection of failure/anomaly. (Except engineering, MPI or Pretest.)

8005 Insp

Inspection to notify DCMC of failure / anomaly. (GFE)

PROD.

INSP

TROUBLESHOOT/REWORK/RETEST ACTION PLAN:

A waiver for this requirement is in process with customer

NOTE: Remove pink copy here. Deliver to QA drop box.

TE

QE

RE

DATE

TEAM LEADER

TROUBLESHOOT/REWORK/RETEST/INSTRUCTIONS:

OPER. STATION

PROD

INSP

RMK

NOTE: For parts replacement continuation page is MANDATORY

☐ PASSED
Retest/Start
TECH DATE

☐ FAILED
Retest/Start
TECH DATE
GO TO S/O, CONT., OR
OPERATION

PAGE

TE/ME

QE

WHAT WAS THE CAUSE OF THE ANOMALY?

CORRECTIVE ACTION:

QE

DATE

TEAM LEADER

—

—

—

TEST DATA SHEET 2
+28 MLB Turn-on Transient (Paragraph 3.2.4.2.1.1)

At 28.56 Vdc:

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
7	Peak Current	4.8 Amps	≤ 8.3 Amps*	P
7	Pulse Width	59.05 ms	17 ms max	F
7	Rate of Change (Slope): dI/dT	229 mA/μs	≤ 640 mA/μs*	P

At 27.44 Vdc:

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
7	Peak Current	4.553 Amps	≤ 8.3 Amps*	P
7	Pulse Width	57.7 ms	17 ms max	F
7	Rate of Change (Slope): dI/dT	164 mA/μs	≤ 640 mA/μs*	P

At 28.00 Vdc:

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
7	Peak Current	4.553 Amps	≤ 8.3 Amps*	P
7	Pulse Width	57.82 ms	17 ms max	F
7	Rate of Change (Slope): dI/dT	276.7 mA/μs	≤ 640 mA/μs*	P

* Refer to Figures 5 and 6.

*VOID See Replacement
new TDS 2*

TAR # 006397 Void

TAR # 006397 is voided by HWS 8/13/98

METSAT/AMSULA2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 489113 S/N: 125



Test Systems Engineer Date

Customer Representative Date
(Flight Hardware Only)

Quality Control Date

Per telecon with S. Krimanchasky 8/12/98 @ MIA

TEST DATA SHEET 3
+28V MLB Operating Power (Paragraph 3.2.4.2.1.2)

Step	+28V MLB at 27 Volts	Measured	Units	Required	Pass/Fail
4	+28V MLB voltage at 27V (V_b) (Measured)	27.001	Volts ✓	27.0 ± 0.1	P
5	Average Current (I_V)	736 ma	Amps	N/A	N/A
6	+28V MLB bus power = $I_V \times V_b$	19.872 W	Watts	25W max	P
+28V MLB at 28 Volts					
7	+28V MLB Bus Voltage at 28V (V_b) (Measured)	28.007	Volts ✓	28.0 ± 0.1	P
8	Average Current (I_V)	720 ma	Amps	N/A	N/A
9	+28V MLB Operating Power = $I_V \times V_b$	20.16 W	Watts	25W max	P
+28V MLB at 29 Volts					
10	+28V MLB voltage at 29V (V_b) (Measured)	29.02	Volts ✓	29.0 ± 0.1	P
11	Average Current (I_V)	700 ma	Amps	N/A	N/A
12	+28V MLB operating power = $I_V \times V_b$	20.31 W	Watts	25W max	P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105



8-12-9

E. Halaczac 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer Date
268 8-13-98
Quality Control Date



AE-26156/42
23 Jun 98

guy 11/4

TEST DATA SHEET 4
+28 Pulse Load Bus (Paragraph 3.2.4.2.2.1-3.2.4.2.2.5)

Peak current				
Paragraph	Parameter	Measured or Calculated	Required	Pass/ Fail
3.2.4.2.2.1	From -0.1 to two seconds			
	Peak Current = I_p	<u>2.043</u> Amps	2.2 amps max	P
3.2.4.2.2.2	From 2 to 4 seconds			
	Peak Current = I_p	<u>2.102</u> Amps	2.2 amps max	P
3.2.4.2.2.3	From 4 to 6 seconds			
	Peak Current = I_p	<u>2.082</u> Amps	2.2 amps max	P
3.2.4.2.2.4	From 6 to 8 seconds			
	Peak Current = I_p	<u>2.120</u> Amps	2.2 amps max	P
3.2.4.2.2.5	Turn-on Transient:			
	dI/dT	<u>1434.0</u> ⁸⁻³⁻⁹⁶ 308.1 mA/ μ s	846 mA/ μ s 1500 mA/ μ s	
	Peak Current = I_p	<u>11.077</u> Amps	9.6 Amps 15 A	

* Refer to Figure 9.

AMSU 1 SEIT
6/13/1998

Bus current during the I/H,D period

Paragraph	Parameter	Measured or Calculated	Pass/ Fail
3.2.4.2.2.1	From -0.1 to 2 seconds	<u>36.36</u> mA	N/A
3.2.4.2.2.2	From 2 to 4 seconds	<u>36.36</u> mA	N/A
3.2.4.2.2.3	From 4 to 6 seconds	<u>36.36</u> mA	N/A
3.2.4.2.2.4	From 6 to 8 seconds	<u>38.78</u> mA	N/A

Bus current during warm cal, cold cal, and nadir

Paragraph	Parameter	Measured	Pass/ Fail
3.2.4.2.2.6 (2)	Warm cal	<u>11</u> mA	N/A
3.2.4.2.2.6 (3)	Cold cal	<u>11</u> mA	N/A
3.2.4.2.2.6 (4)	Nadir	<u>11</u> mA	N/A

METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 984113 S/N: 105

Circle Test: 1st CPT Final CPT

J. Gallegos 8-13-98
Customer Representative Date
(Flight Hardware Only)

AMSU 1 SEIT
8-13-98
Test Systems Engineer Date
261 8-13-98
Quality Control Date

23 Jun 98

TEST DATA SHEET 5
+28V Analog Telemetry Bus (Paragraph 3.2.4.2.3)

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
3	+28V ATB Bus Voltage (V_{at}) (Measured)	<u>27.8</u> Volts	28.0 \pm .5	P
3	Av. Current (I_a)	<u>2.8</u> mA	7 mA max	P
4	+28V ATB Bus Power = $I_a \times V_{at}$	<u>77.8</u> mW	200 mW max	P

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105



8/13/98

G. Galacgac 8-13-98
 Customer Representative Date
 (Flight Hardware Only)

Test Systems Engineer

Date
8-13-98

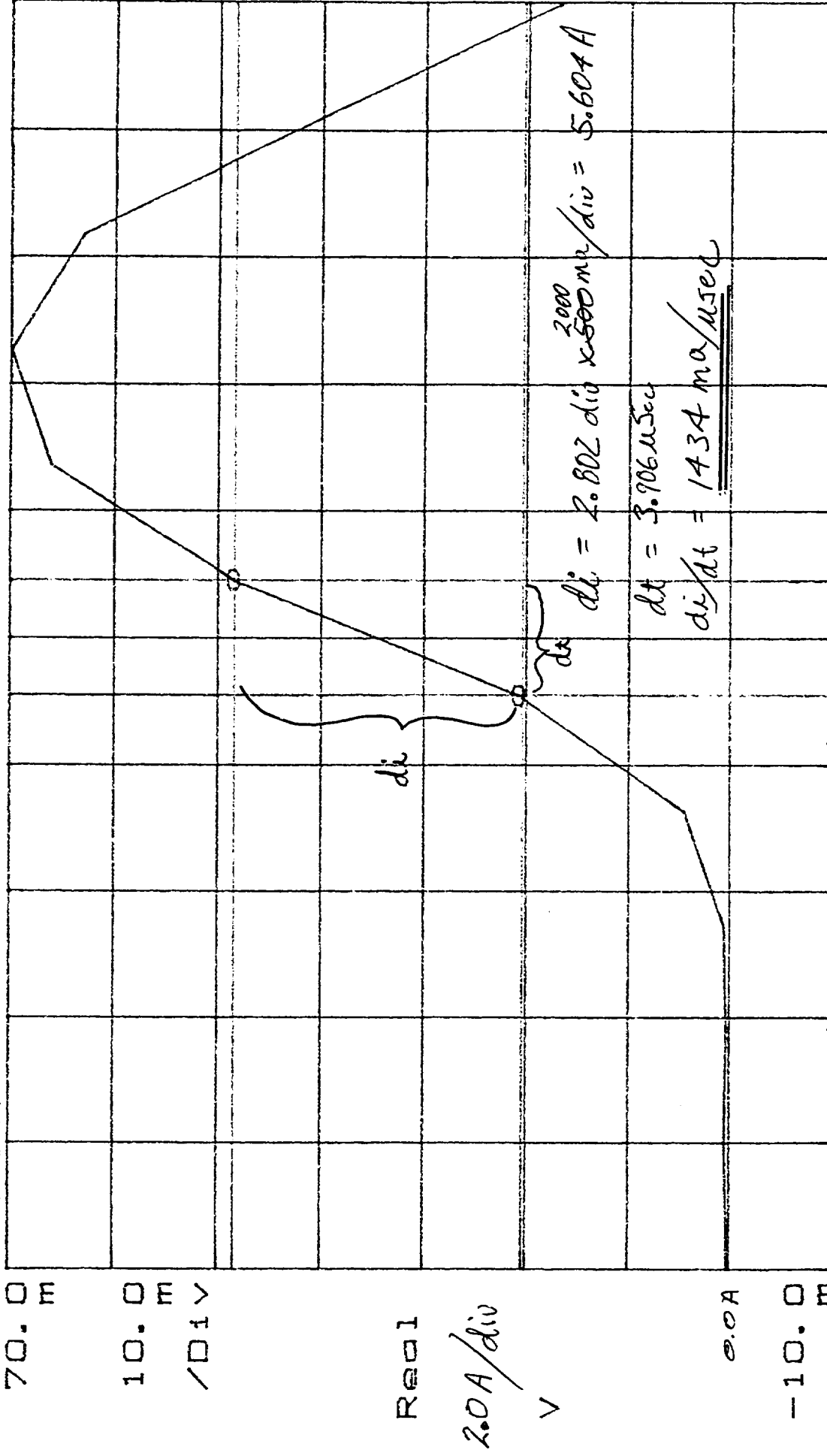
Quality Control

Date

X	Y	Z	Δ	X	Y	Z	Δ
3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
59	59	59	59	59	59	59	59
43	43	43	43	43	43	43	43
72	72	72	72	72	72	72	72
2E	2E	2E	2E	2E	2E	2E	2E

$$\Delta Y = 28.02 \text{ mV}$$

CAP. 011



055

28.14

5/0: 484113

324.27.5

T-1

A f. 8-13-00

P/N: 1331200-2-17 5M 105

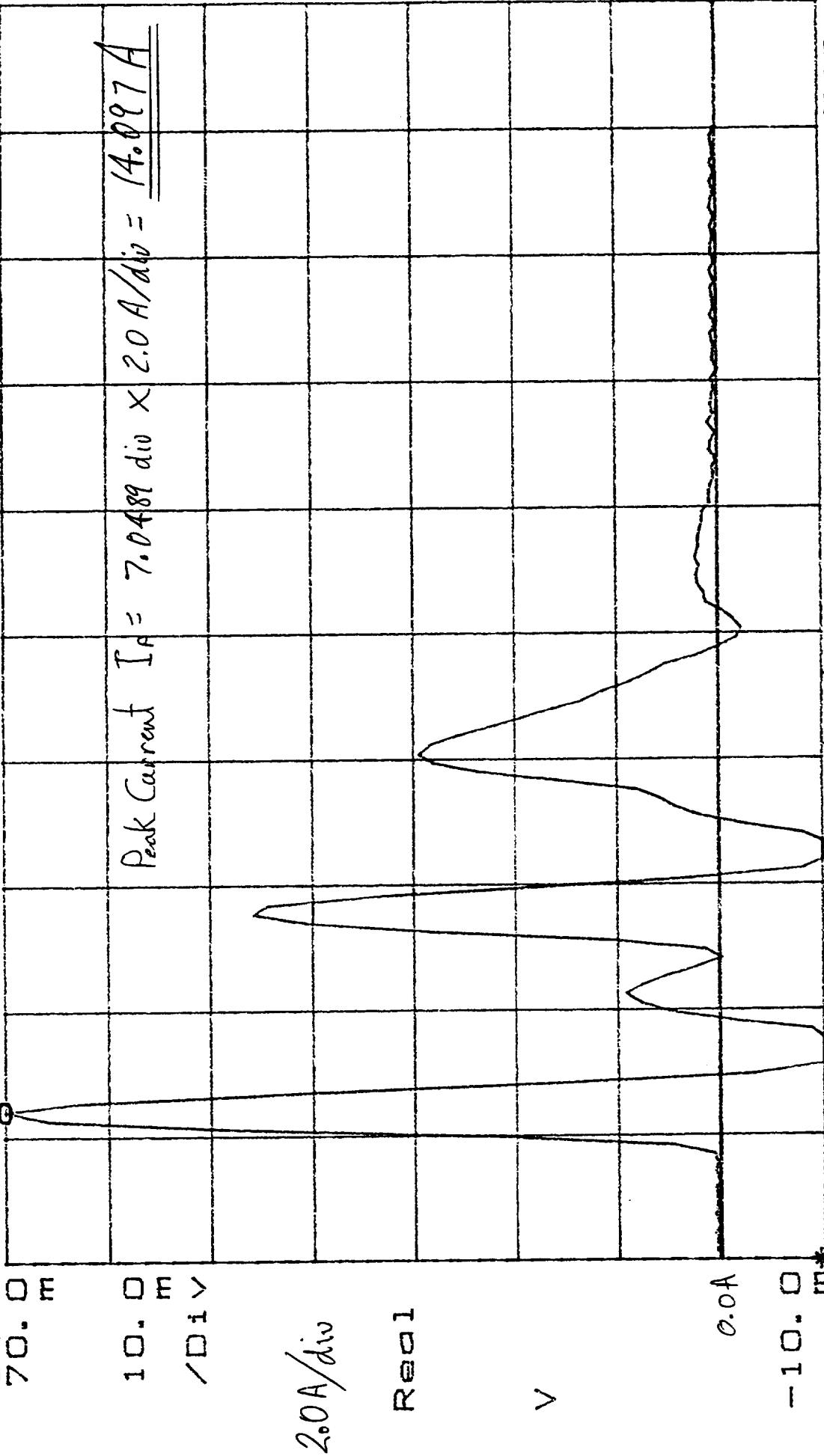
0 1.7 (268) (7A)

2/15/20

X=16.406 μ Sec
Y=70.4896mV

Y=-12.122 μ $\Delta Y=193.9 \mu V$

CAP TIM BUF



2.0A/div

Real

V

0.0A

-10.0m

FxdXY -50.0 μ Pulse Load Bus Turn-On Current Sec

ANALOG
8
BIT

500 μ

Test Eng:

32.A.2.2.5

Date: 9-19-98

S/N: 484113

PN: 1331200-2-1T S/N: 105

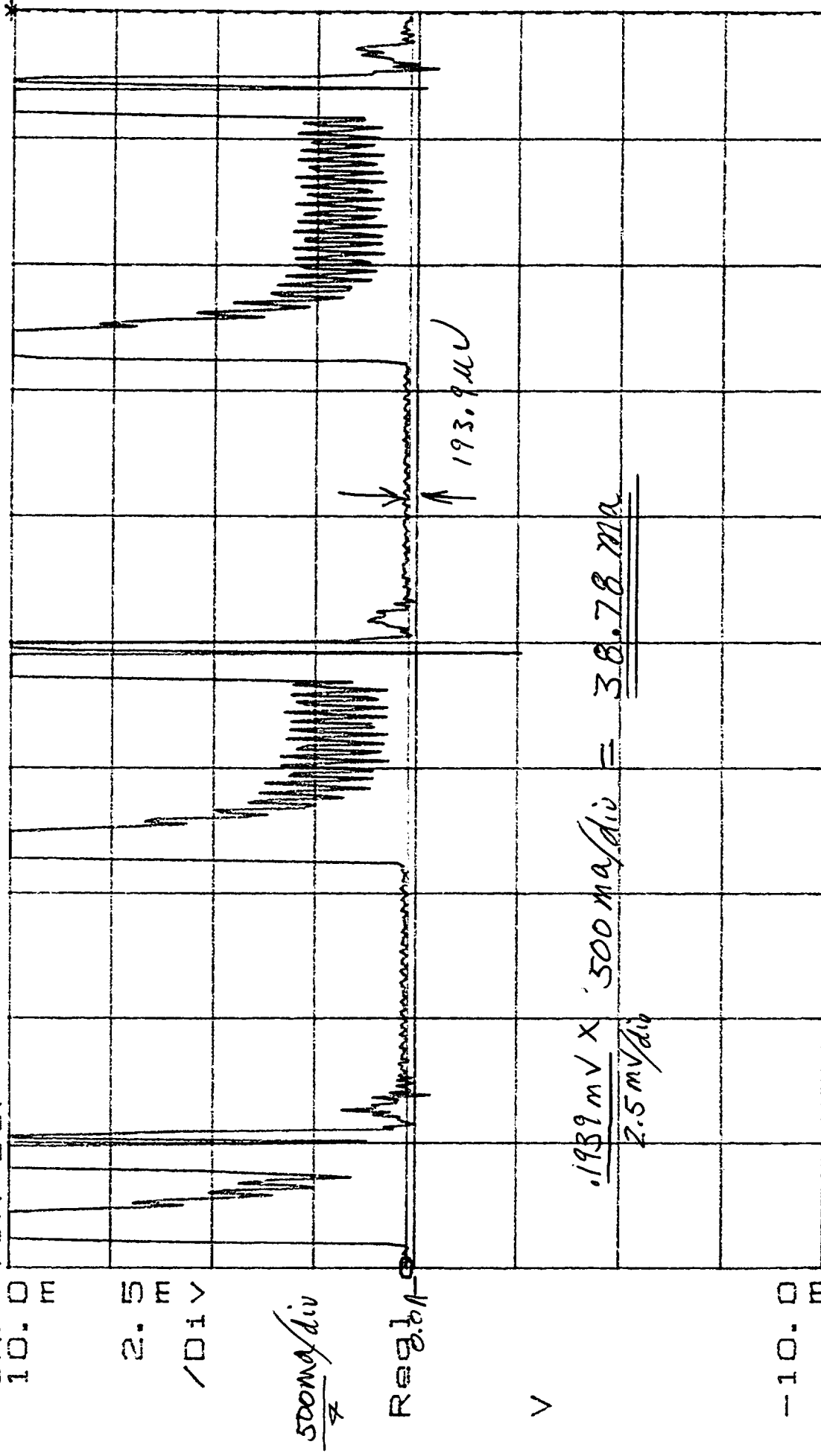
Quality: (8921)
(V)

8-12-98

X=6.0 Sec
Y=162.182 μ V

Y=-24.244 μ Δ Y=193.9 μ V

CAP TIM BUF



-10.0

FxdXY 6.0 TH, 0 BuJ Current 6-8 Sec Sec

8.0

S/O: 984113

3.2.4. 2.2.4

Test Eng.

(1430
8
268)

Date: 8-13-98

P/N: 1331200-2-17 5N: 105

Quality:

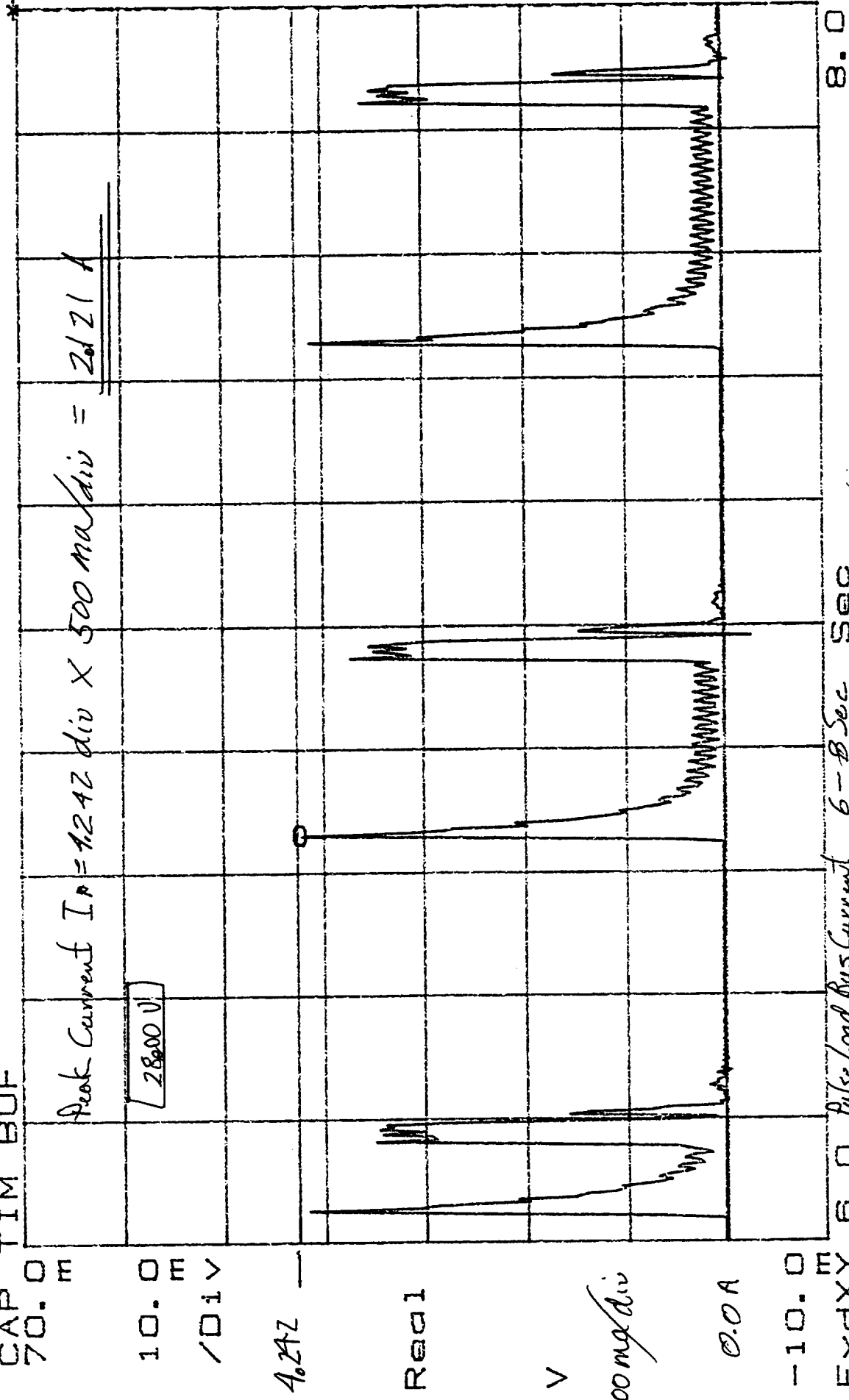
(7A
268)

8-13-98

Y=133.332μ ΔY=42.42mV

X=6.6602 Sec
Y=42.2485mV

CAP TIM BUF



8.0

Test Eng: (4310 8.13V)

Date: 8-13-98

3.2.4.2.2.A

S/O: 4B4113

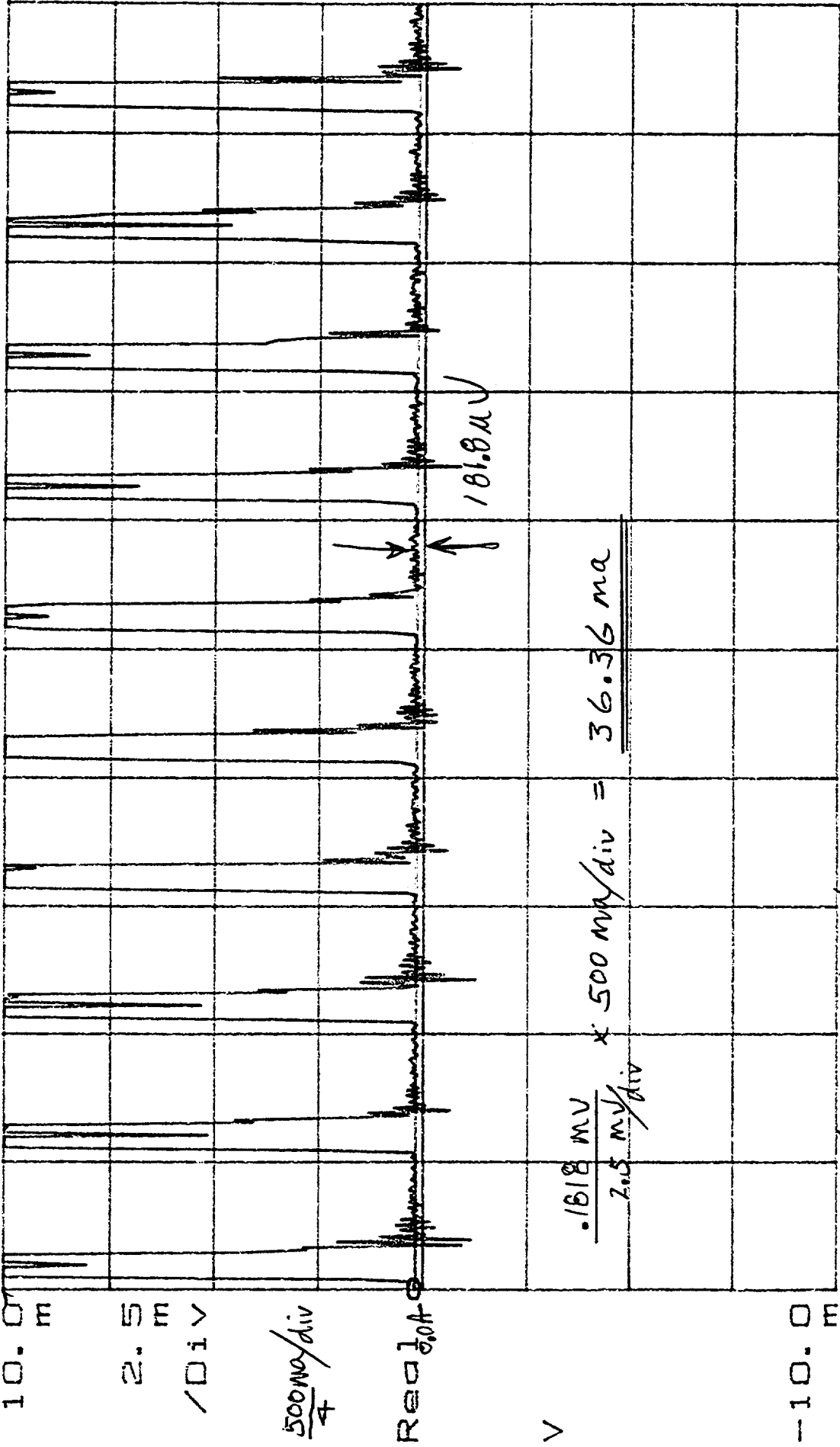
P/N: 1331200-2-II 50", 105

28.00V

Quality: ~~XXXXXXXXXX~~ 8-13-98

X=4.0 Sec
Y=178.401 μ V
CAP TIM BUF
10.0

Y=-24.244 μ Δ Y=181.8 μ V



-10.0

FxdXY 4.0 /H,D Bus Current 4-6 Sec Sec
56: 484113 3.24.22.3

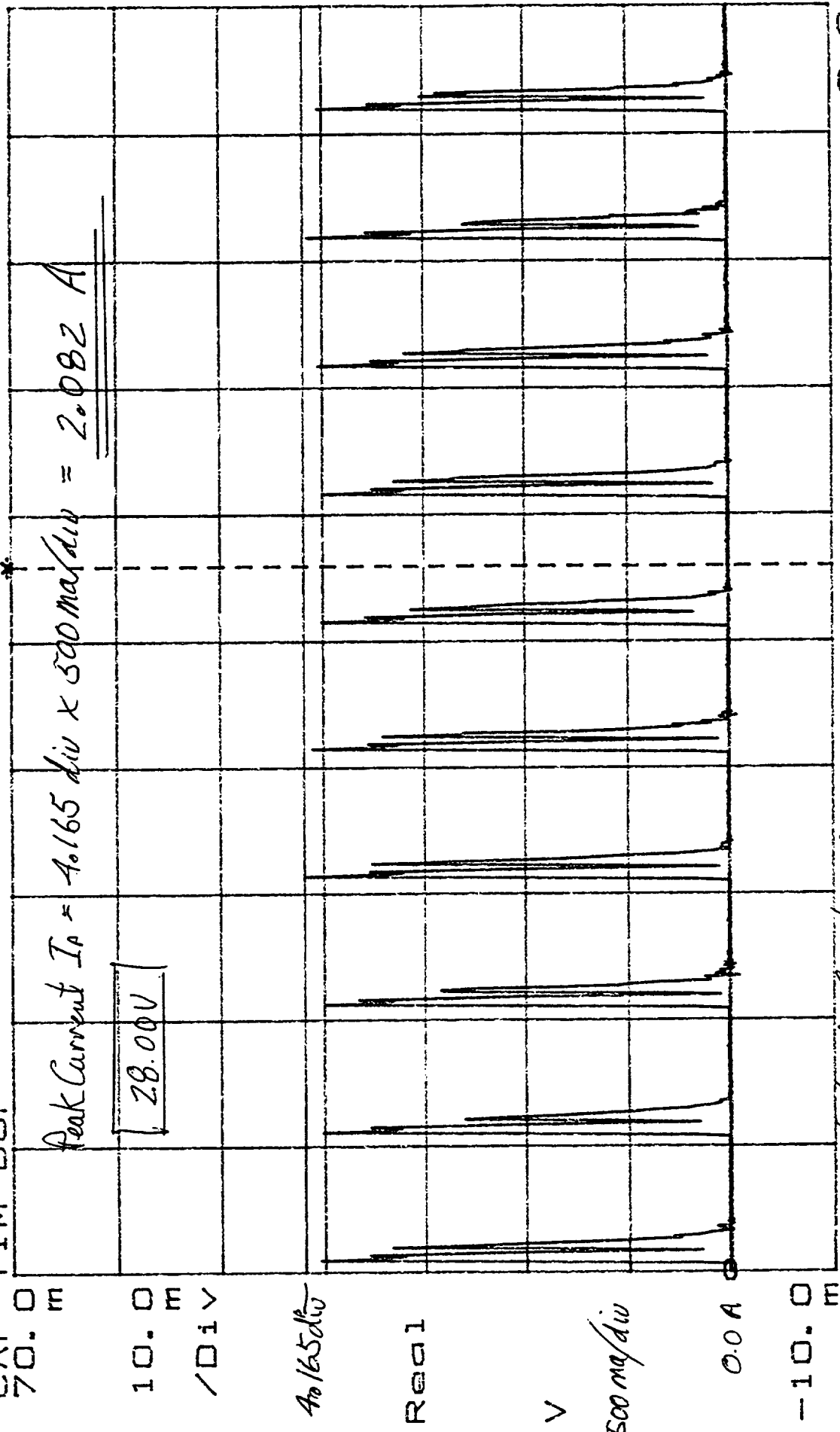
Test Eng: 8.0
Date: 8-13-98

Quality ~~Signature~~ 8-13-98

AW 133/200-2-II SN: 105

X=4.0 Sec
 Y=178.401 μ V
 CAP TIM BUF
 70.0

Y=133.332 μ Δ Y=41.65mV



S/O: 484113
 P/W: 1331200-2-17 SN: 105
 Test Eng: Date: 8-13-98
 Quality: 8-13-98
 28.00 V

X=2.0 Sec
Y0=41.0808mV

Y=-24.244μ ΔY=181.8μV

CAP TIM BUF

10.0 m

2.5 E

/Div

500 ma/div

Real

V

-10.0 m

FXdXY

STO: 484113

P/N: 1331200-2-11 SN: 105

2.0 1/4 Δ Bus Current

32.4.22.2

2-4 sec

Sec

4.0

AMSU
8
REIT

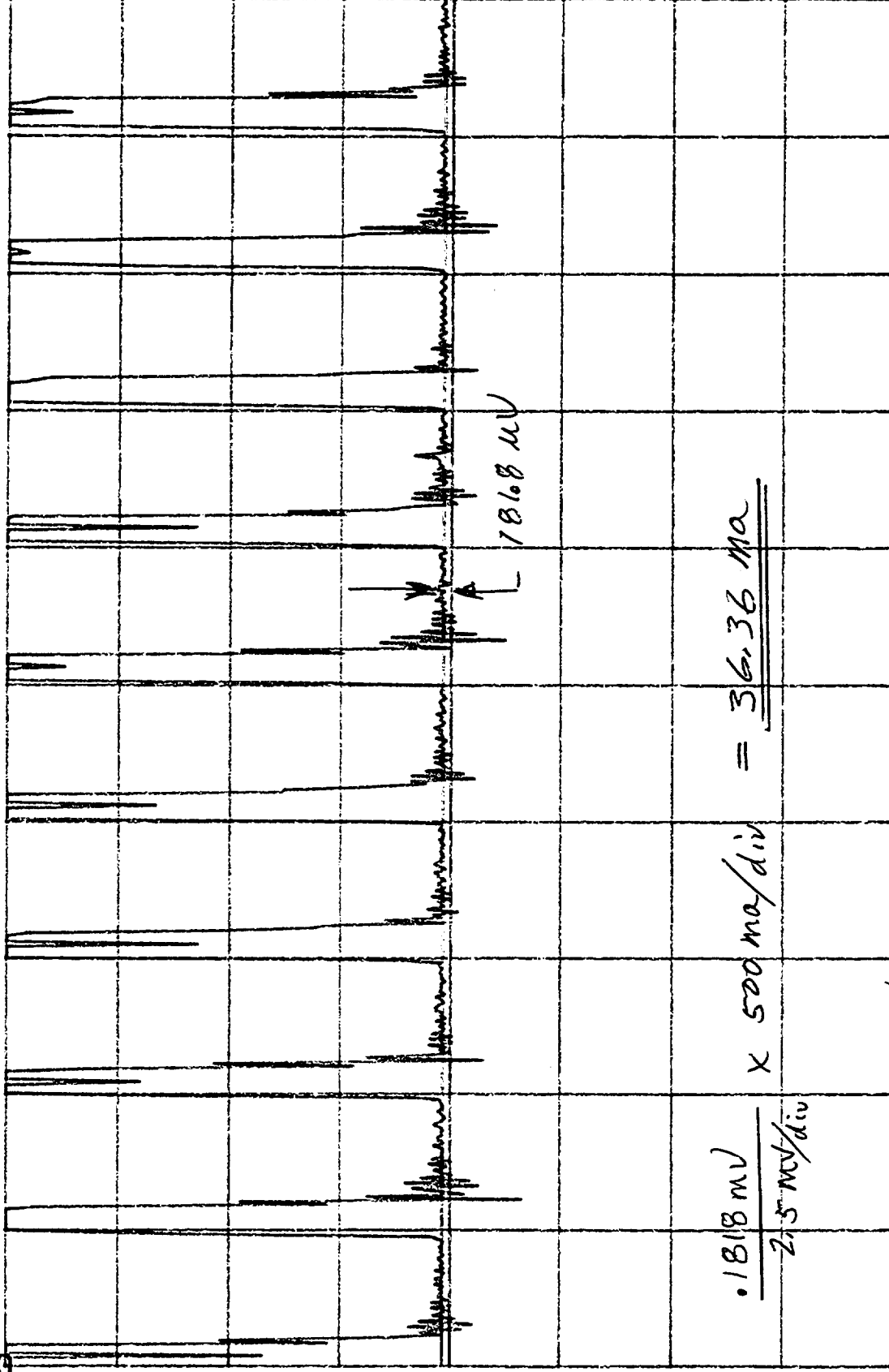
Test Eng:

Date: 8-13-98

Quality

[Signature]

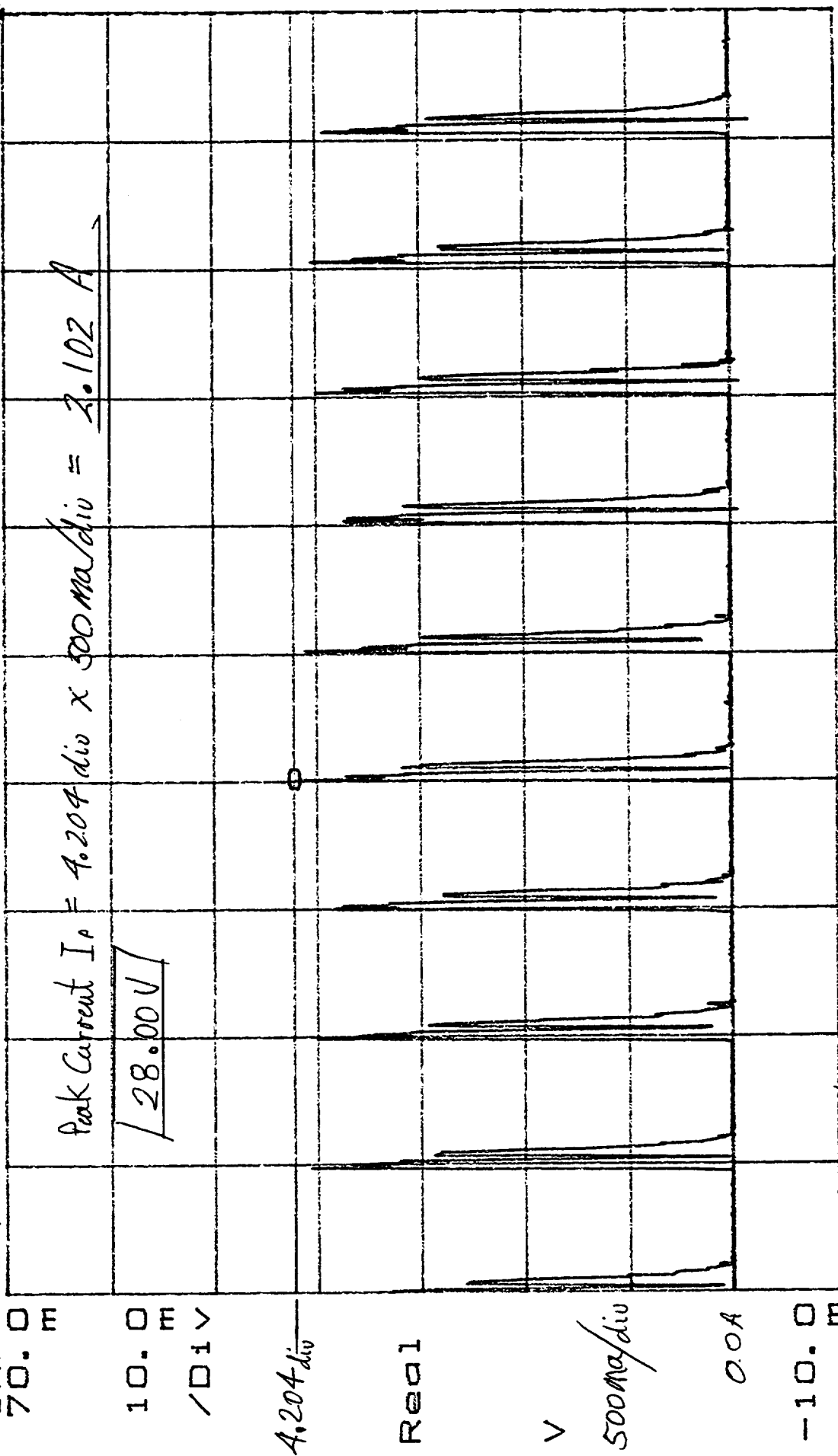
8-13-98



X=2.8027 Sec
Y=42.0377mV

Y=133.332μ ΔY=42.04mV

CAP TIM BUF



FXdXY 2.0 Pulse Load Current 2-4 Sec 4.0

Test Eng:  Date: 8-13-98

28.00V

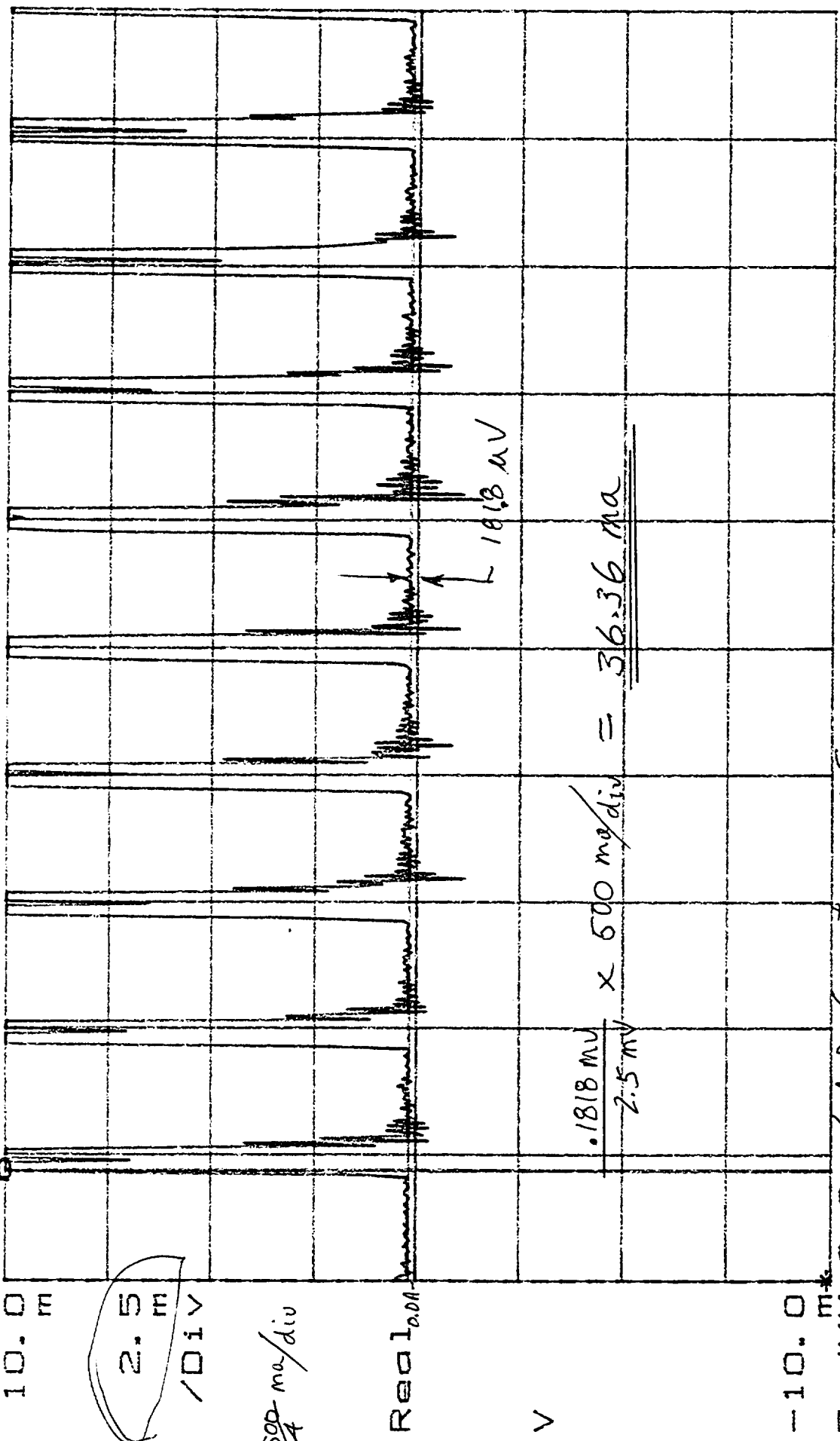
SV: 484113

AN: 133770-2-17 SN: 105

Quality: ~~miss~~ 8-17-98

$X=175.8\text{ms}$ $\Delta X=3.906\text{ms}$ $Y=-24.244\mu$ $\Delta Y=181.8\mu\text{V}$
 $Y_0=35.8585\text{m}$ $\Delta Y_0=23.57\text{mV}$

CAP TIM BUF



-10.0 m

FXdXY 0.0 V_H, Δ Bus Current 0-2 Sec Sec

Test Eng: ANSU
B
SEIT

2.0

Date: 8-13-98

32A.22.1

SN: 484113

A/N: 1331200-2-17 SN: 165
 Quality: ~~21.2.22~~

X=991.21mSec
Y=-4.2167mV

Y=42.3636m $\Delta Y=42.13mV$

CAP TIM BUF

70.0m

10.0m

/DIV

4.087m

Real

V

500mA/div

0.0A

-10.0m

FxdXY 0.0 Pulse Load Bus Current 0-2 Sec

S/b: 484113

P/W: 1331200-2-17 SW: 105

Peak Current $I_p = 42.13$ 4.087 div $\times 500 \text{ mA/div} = 2.043 \text{ A}$

28.00V

Sec

2.0

Test End. (ANSU B SET)

Date: 8-13-98

Quality ~~Signature~~ 8/13/98

X=988.28mSec
Y=42.4918mV

Y=42.3636m $\Delta Y=42.13mV$

DAF 30F

NO. 0F

10. 0F

VDI Y

0

Result

500 mV/div

0.0 A

10. 0F


EXCITY 0.0

Sec

8.0

50:484113

32.4.2

Test Eng: 

Date: 8-13-98

P/N: 1331200-2-II SW: 105

Qual. tr.  5-13-98

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.

—



B
AE-26156/4Q
23 Jun 98

TEST DATA SHEET 6
+10V Interface Bus Voltage (Paragraph 3.2.4.2.4)

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
3	Av. Current (I_a)	5.5 mA	10 ma max	P
3	+10V Interface Bus (V_{ib}) (Measured)	9.05 Volts	9.0 \pm 1.0 V	P
4	+10 Interface Bus Power = $I_a \times V_{ib}$	49.8 mW	100 mW max	P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 48/113 S/N: 105

C. Galacra 8-13-98
Customer Representative Date
(Flight Hardware Only)

AMSU 1 SEIT
Test Systems Engineer 161 8/13/98 Date
Quality Control 161 8/13/98 Date

TEST DATA SHEET 7
1.248 MHz Clock Signal Verification (Paragraph 3.2.4.3.2.1)

1.248 CLOCK SIGNAL
ATTACH PHOTOGRAPH OR PLOT HERE

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
5	Clock Frequency	1.25 MHz	1.248 \pm 10%	P
	Clock Amplitude	9.46 Volts	9.0 \pm 1.0V	P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105



8/13/98

P. Galacgac 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer



Date

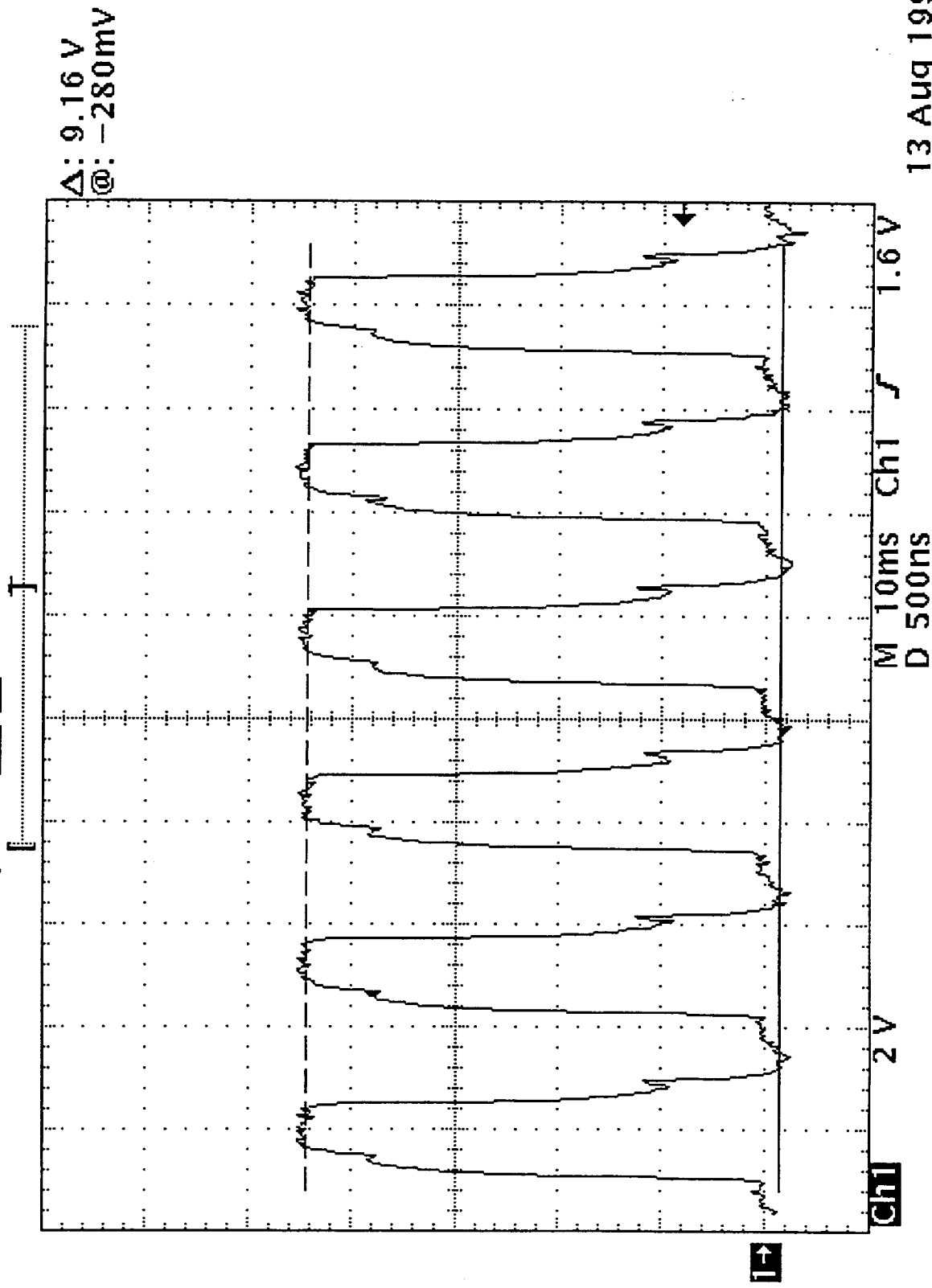
7-15-98

Quality Control

Date

SUPPORT DATA FOR TDS 7 1ST CRT 5/6 484113

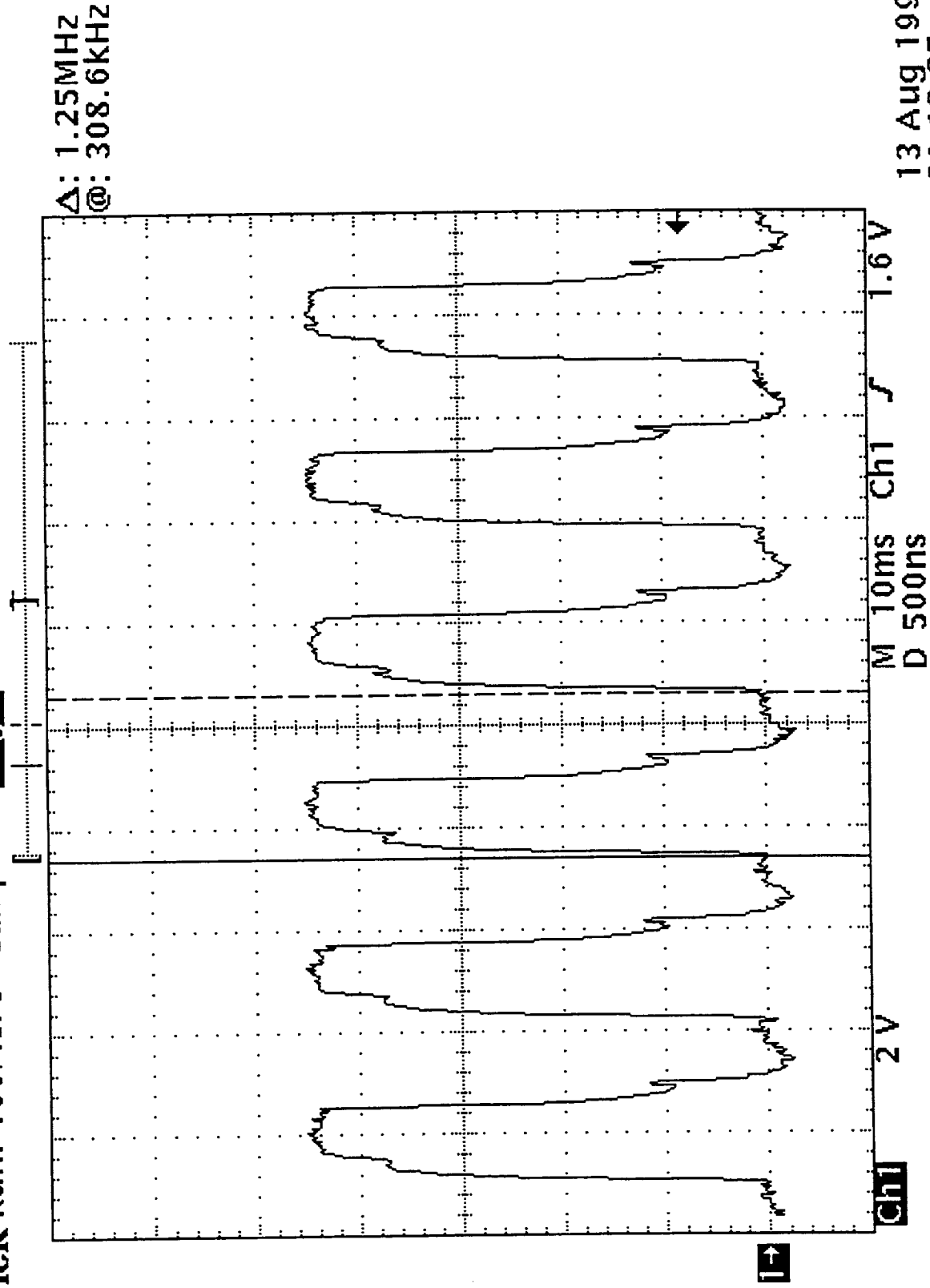
Tek Run: 100MS/s Sample **TRIG**



13 Aug 1998
20:14:51

Tek Run: 100MS/s Sample

1119d



13 Aug 1998
20:12:27

SUPPORT DATA FOR TOS7 1st CPT S/b 484113

TEST DATA SHEET 8
"C1" Shift Pulse Verification (Paragraph 3.2.4.3.2.2)

"C1" SHIFT PULSE
ATTACH PHOTOGRAPH OR PLOT HERE

Parameter	Measured/ Calculated	Required	Pass/ Fail
Pulse Timing (A) *	<u>48</u> μ s	48 μ s \pm 10%	P
Pluse Timing (B) *	<u>12</u> μ s	12 μ s \pm 10%	P
Pulse Amplitude	<u>8.52</u> Volts	9.0 \pm 1.0V	P

* Refer to Figure 13 for location of the pulse timing A and B.

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105



G. Malagac 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer

(261)
VZ

8/13/98

Date

Quality Control

Date

TEST DATA SHEET 9
"A1" Select Pulse Verification (Paragraph 3.2.4.3.2.3)

"A1" SELECT PULSE
ATTACH PHOTOGRAPH OR PLOT HERE

Parameter	Measured/ Calculated	Required	Pass/ Fail
Select Pulse Timing (F) *	<u>960</u> μ s	961.5 μ s \pm 10%	P
Select Pulse Amplitude	<u>852</u> Volts	9.0 \pm 1.0V	P

* Refer to Figure 13 for location of the pulse timing F

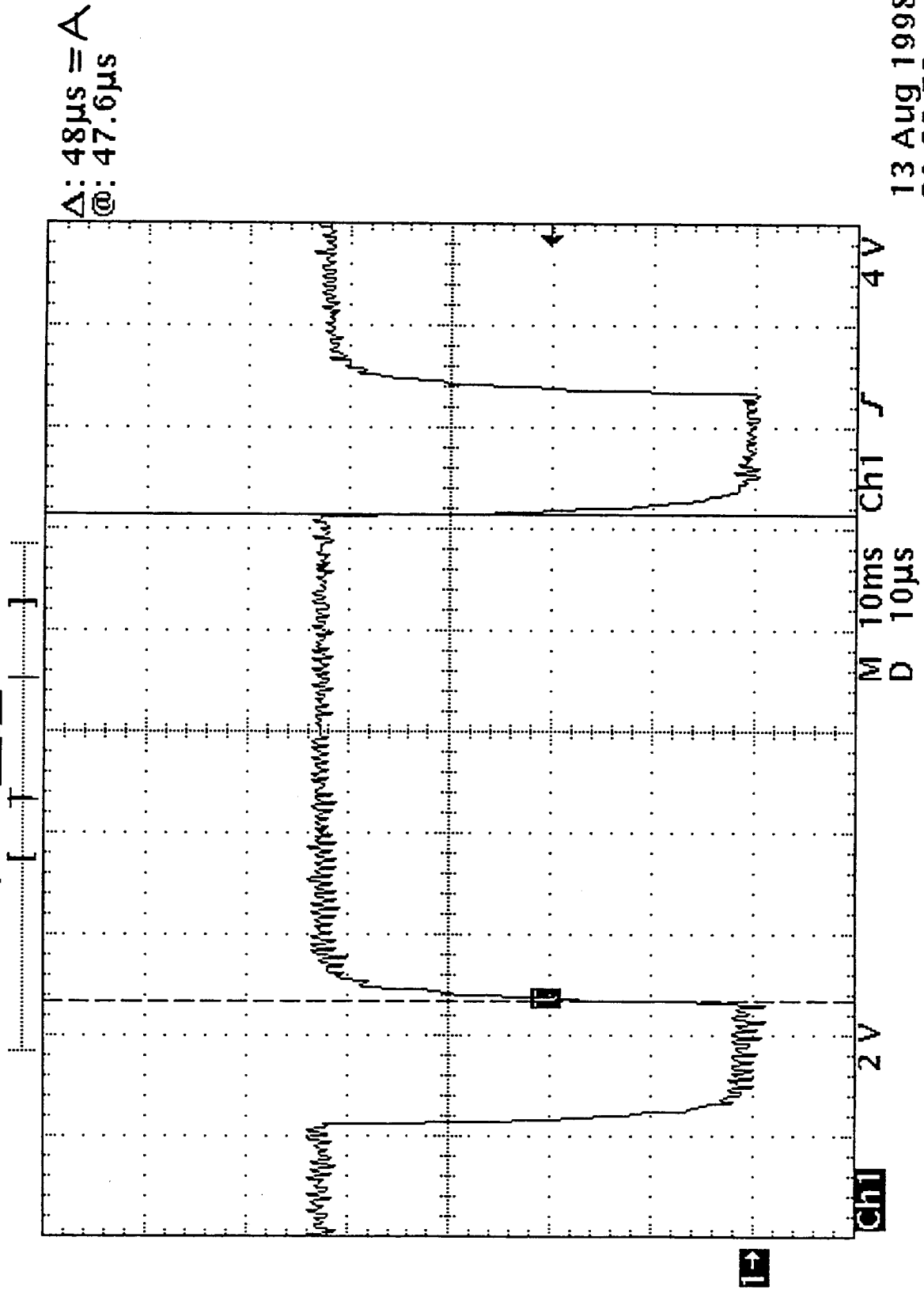
METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

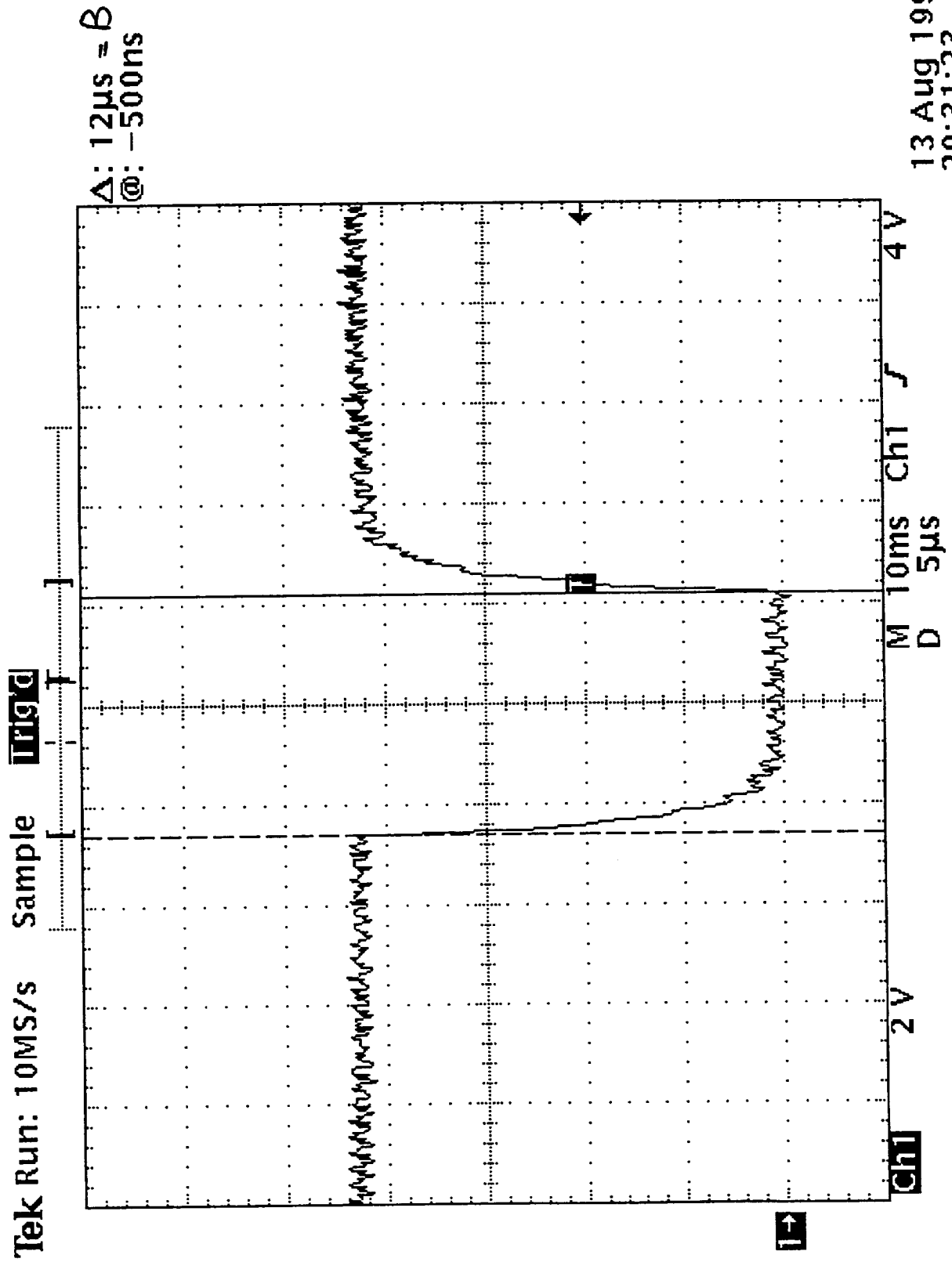
Q. Halagao 8-13-98
Customer Representative Date
(Flight Hardware Only)

AMSU
1
SEIT
Test Systems Engineer 261 8/13/98 Date
VL 8-13-98
Quality Control Date

Tek Run: 5MS/s Sample Trig'd



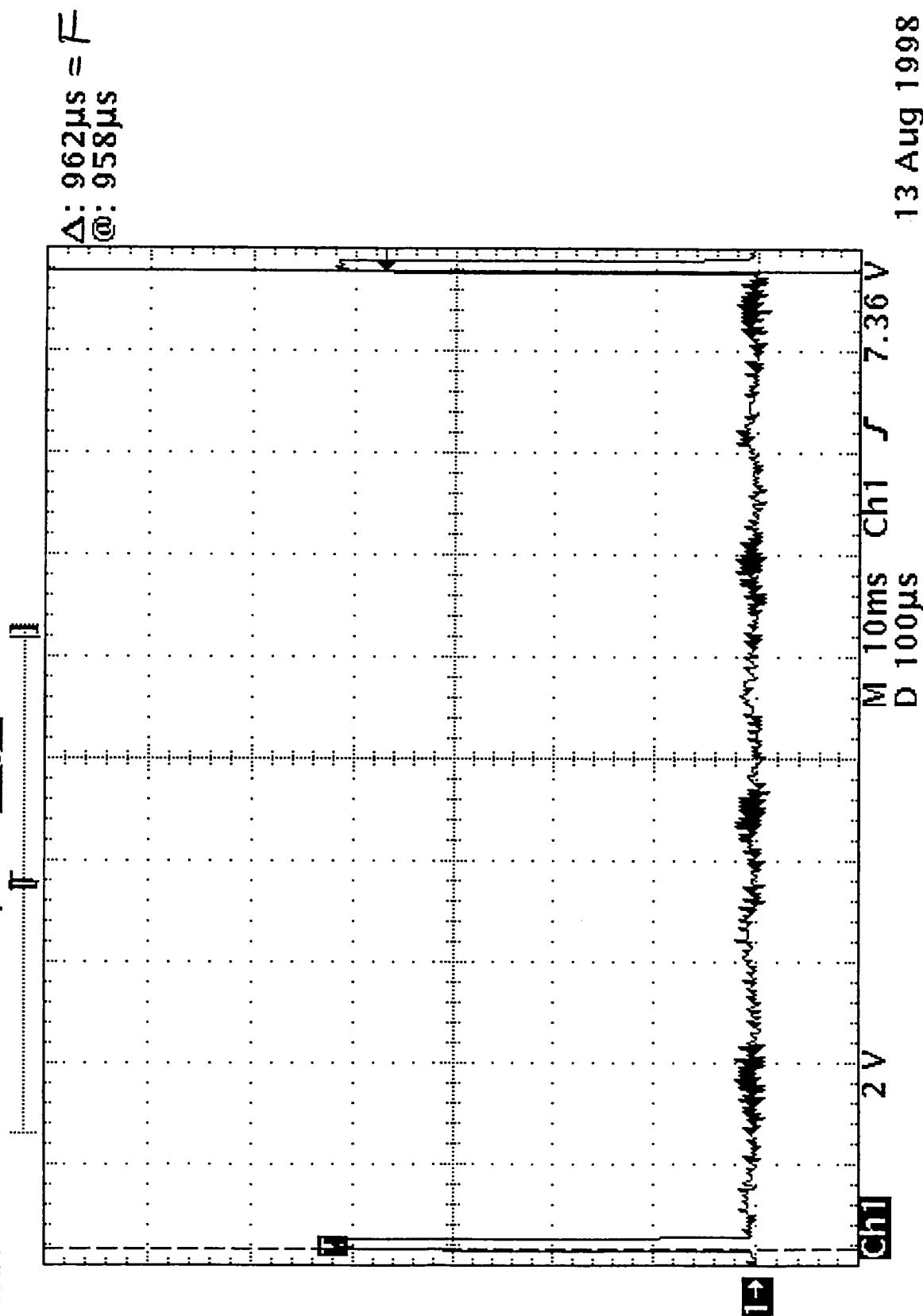
13 Aug 1998
20:33:58



13 Aug 1998
20:31:23

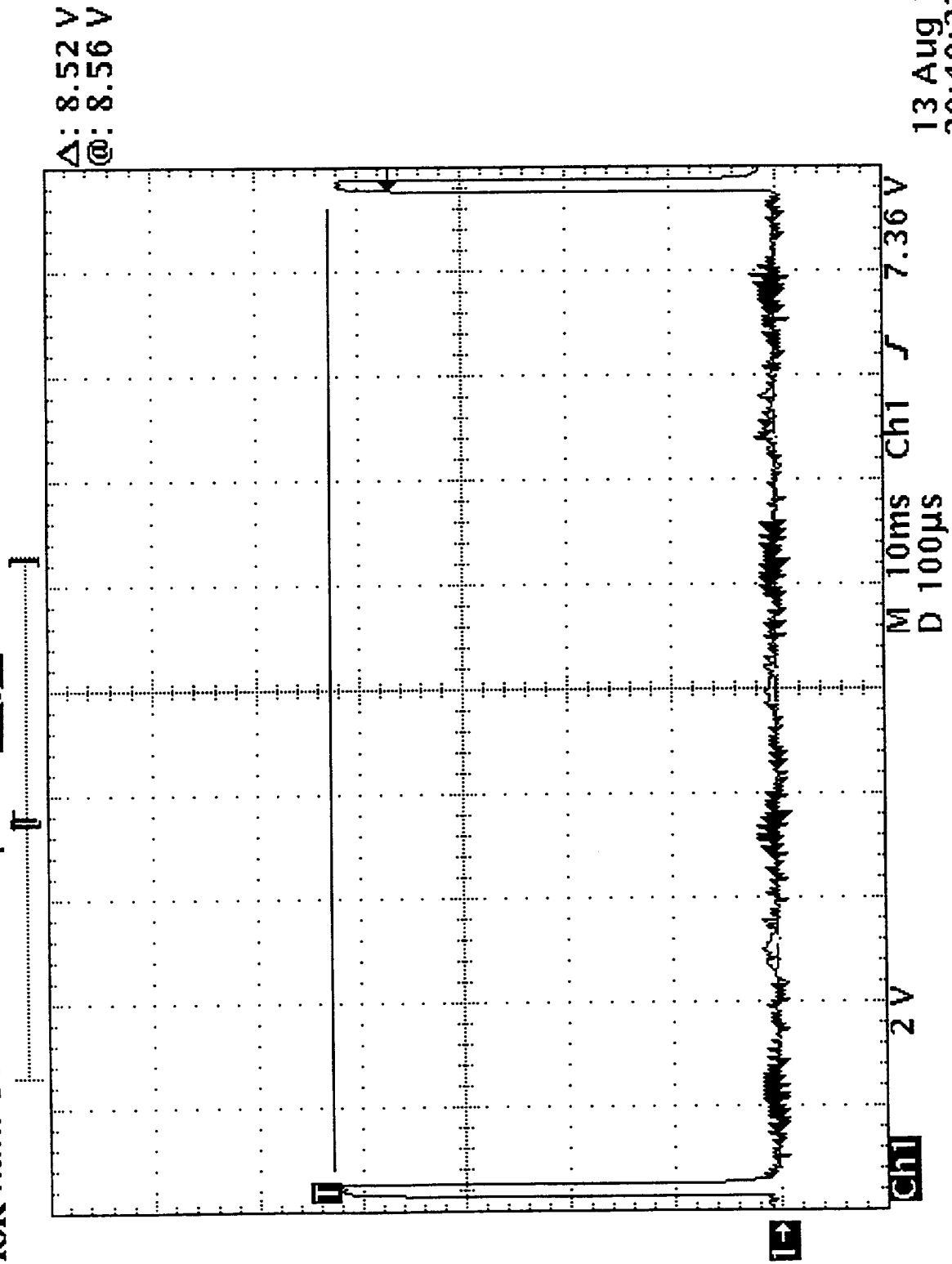
SUPPORT DATA FOR TDS 9 1ST CPT S/O 484113

Tek Run: 500ks/s Sample Trig'd



13 Aug 1998
20:39:32

Tek Run: 500ks/s Sample Trig'd



13 Aug 1998
20:40:32

8/13/98


 B
 AE-26156/40
 23 Jun 98

TEST DATA SHEET 10

"8 Seconds" Frame Sync Pulse (Paragraph 3.2.4.3.2.4)

"8 SECONDS" FRAME SYNC PULSE
 ATTACH PHOTOGRAPH OR PLOT HERE

Step	Parameter	Measured/ Calculated	Required	Pass/ Fail
1*	Frame Sync Pulse Timing	8 Sec	8 Sec $\pm 10\%$	P
	Frame Sync Pulse Timing (C)**	240 μ s	240.4 μ s $\pm 10\%$	P
	Frame Sync Pulse Amplitude	8.5 Volts	9.0 ± 1.0 V	P

* Measure timing of 8-sec FSP by using HP 5316A Universal Counter.

** Refer to Figure 13 for location of the timing pulses for C.

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: (1st CPT) Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105



[Signature] 8-13-98
 Customer Representative Date
 (Flight Hardware Only)

8/13/98
 Test Systems Engineer Date
 8-13-98
 Quality Control Date

TEST DATA SHEET 11 (Sheet 1 of 2)
Synchronization Signals Relationship (Paragraph 3.2.4.3.2.5)

A1 Select pulse and the 8 seconds Frame sync pulse.

ATTACH PHOTOGRAPH OR PLOT HERE

Verify that the timing between H and I is as shown
in Figure 13.

TIME MEASURED: 13.7ms


TIME REQUIRED: 13.7 ms $\pm 10\%$

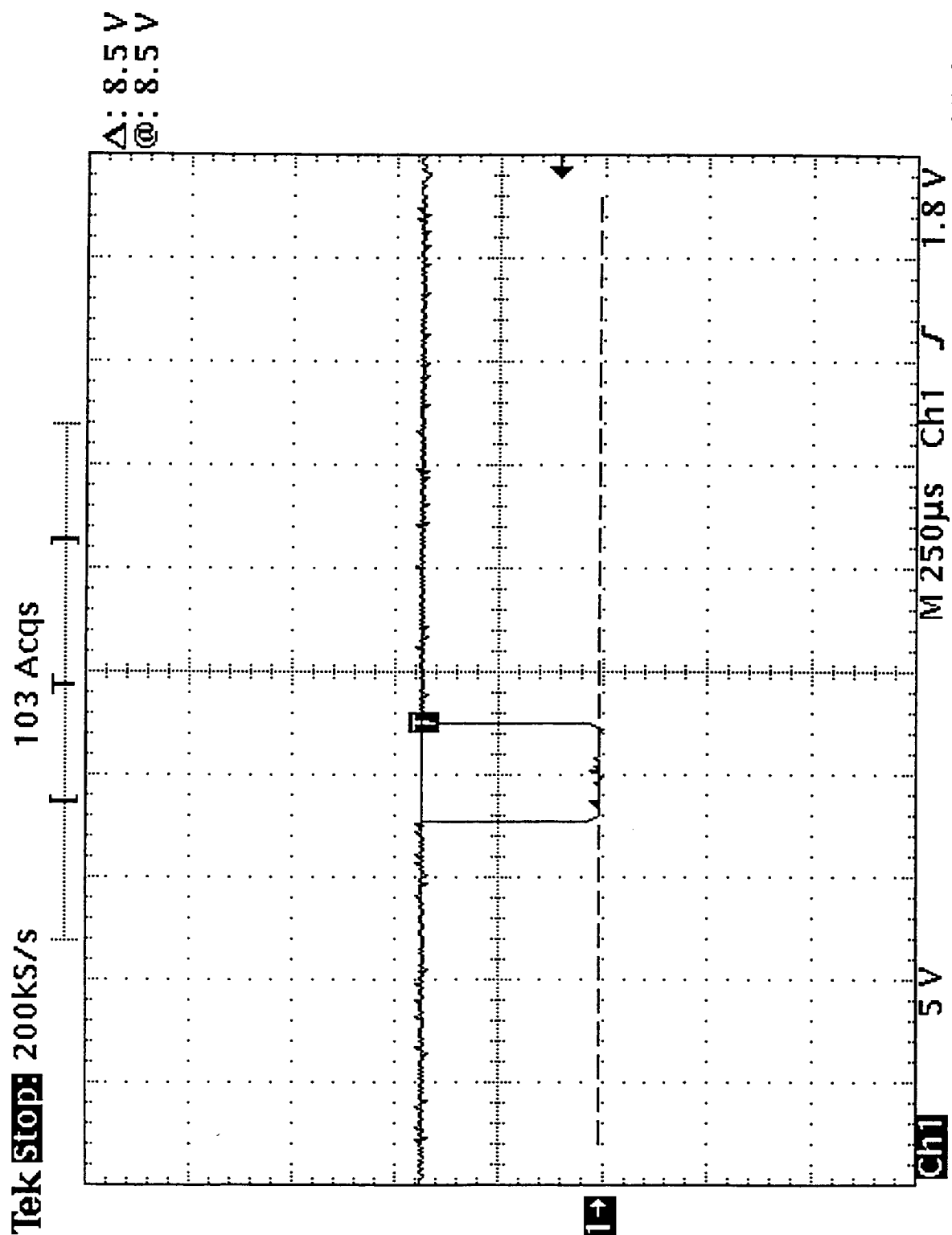
PASS/FAIL P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

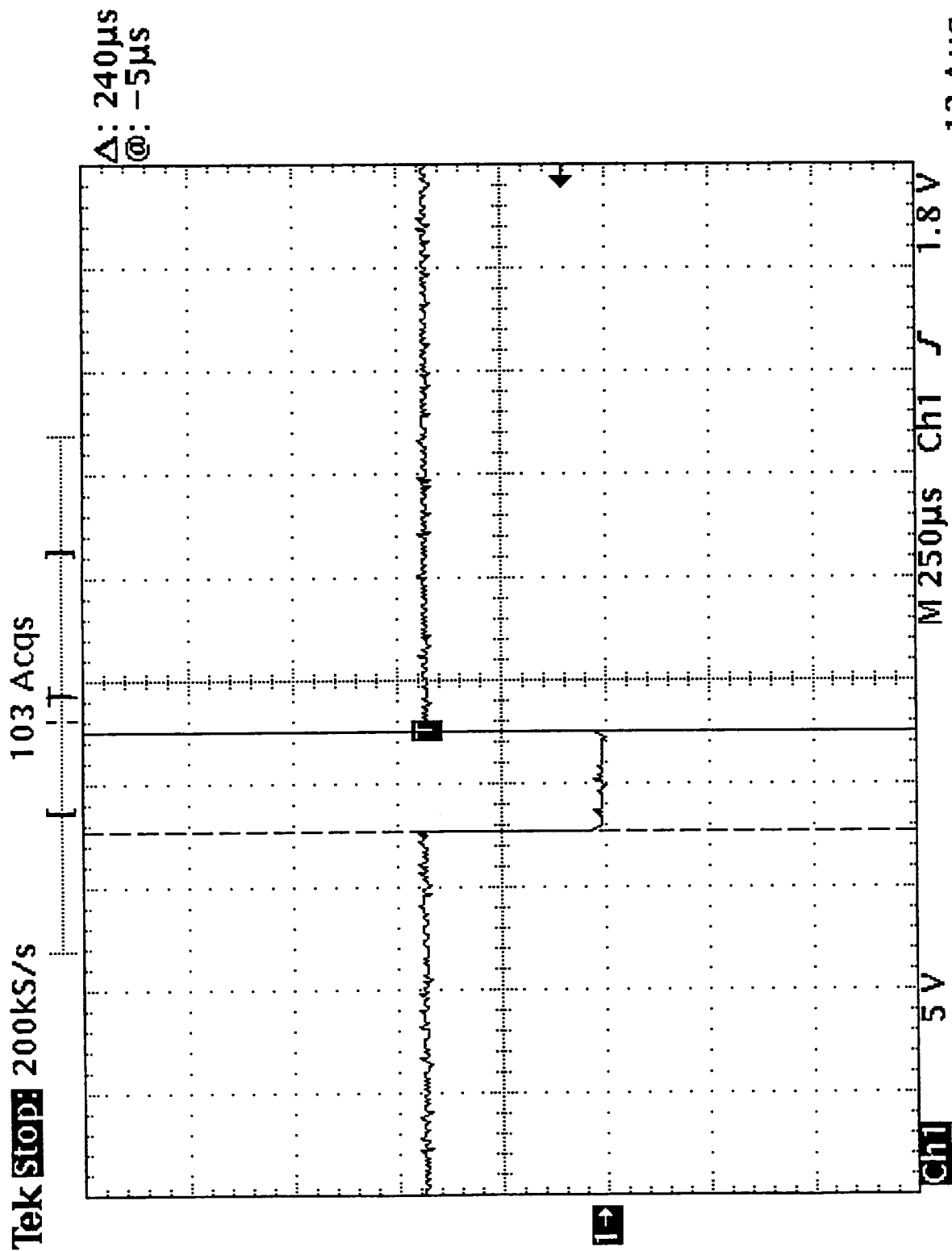
Shop Order: 484/113 S/N: 105

G. Valenzuela 8-13-98
Customer Representative Date
(Flight Hardware Only)

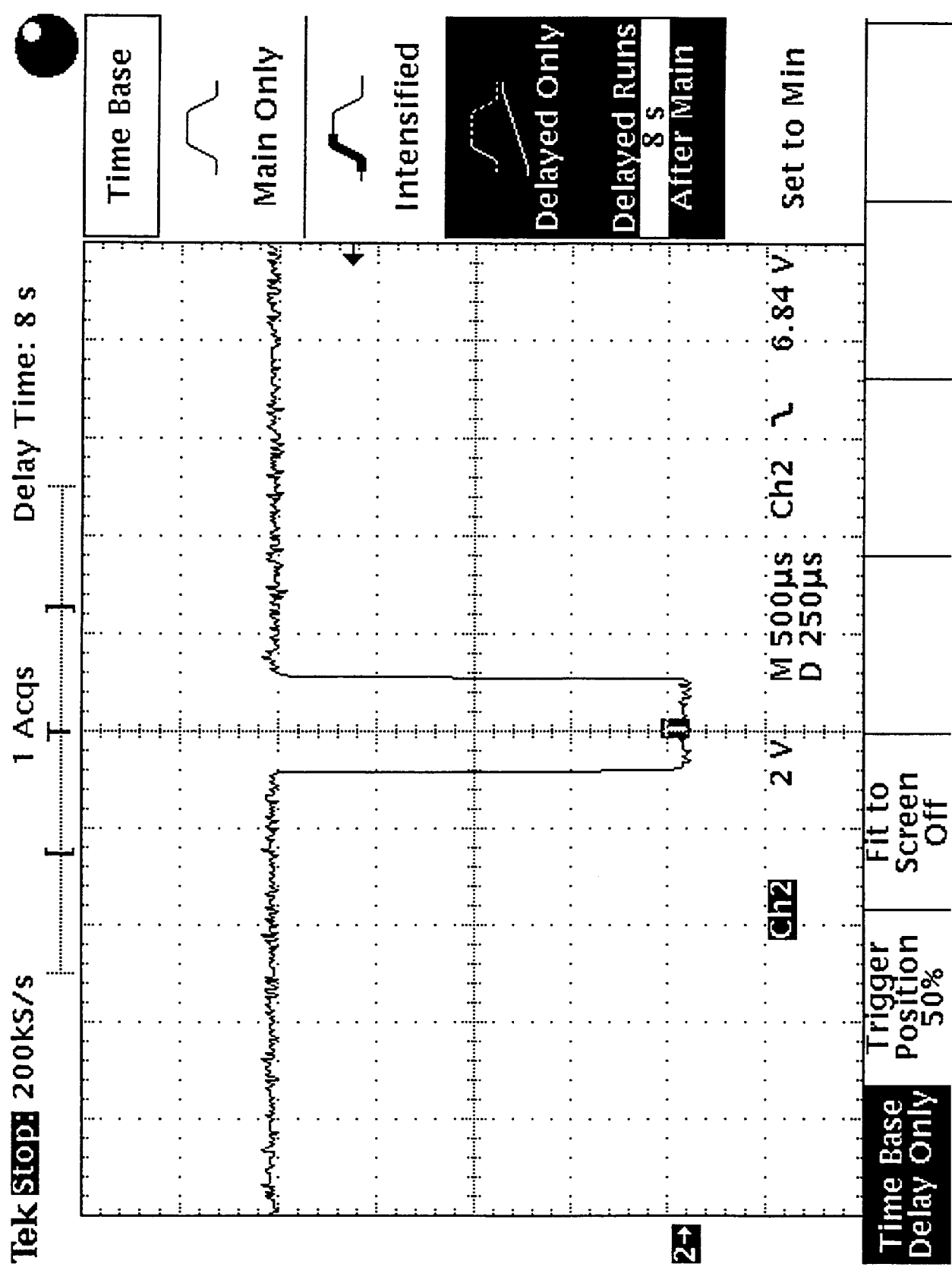

8/13/98
Test Systems Engineer Date
8-13-98
Quality Control Date



13 Aug 1998
21:06:31

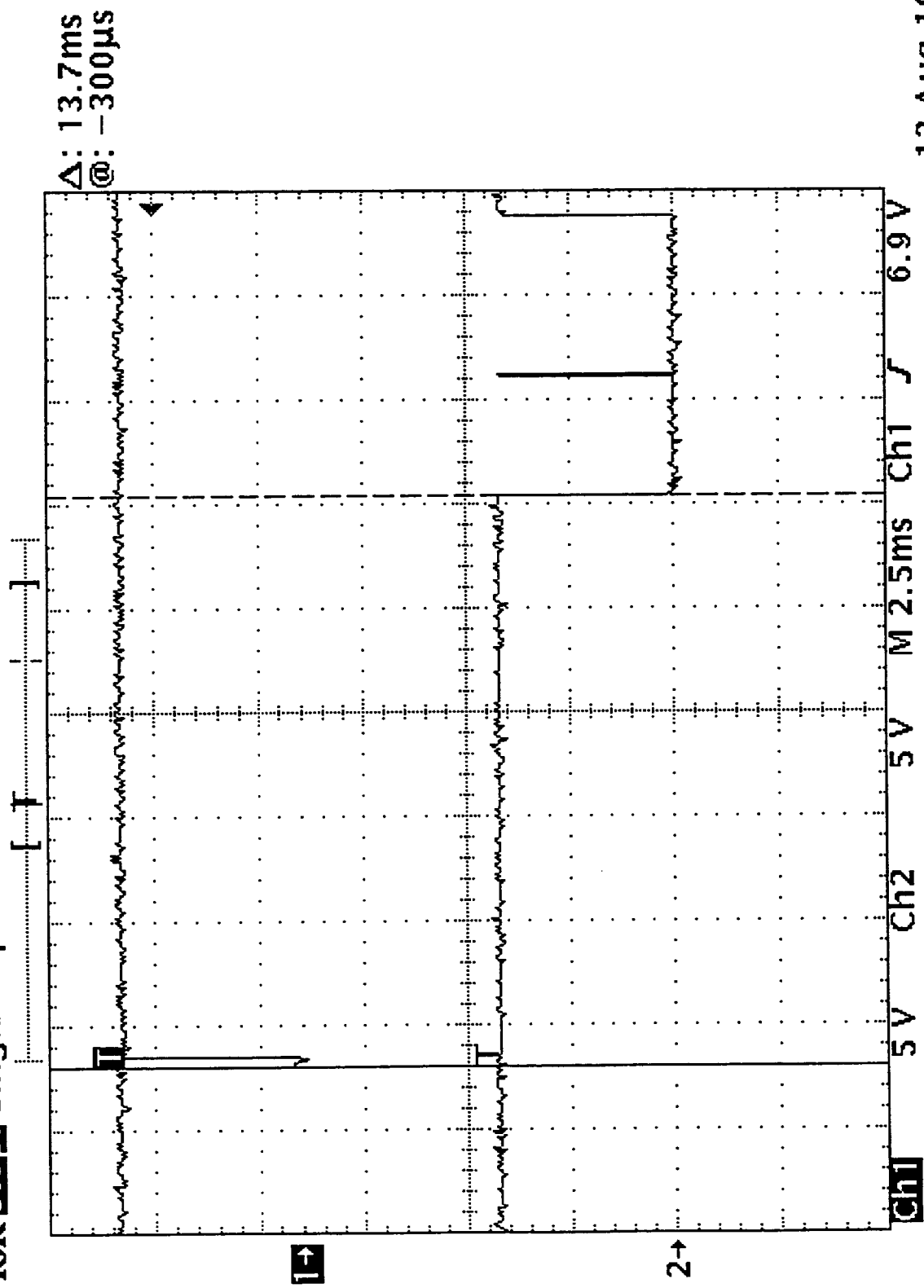


13 Aug 1998
21:05:53



Support Data for TI 118.1) 1st OPT S/O 484113

Tek Stop: Single Seq 20KS/s



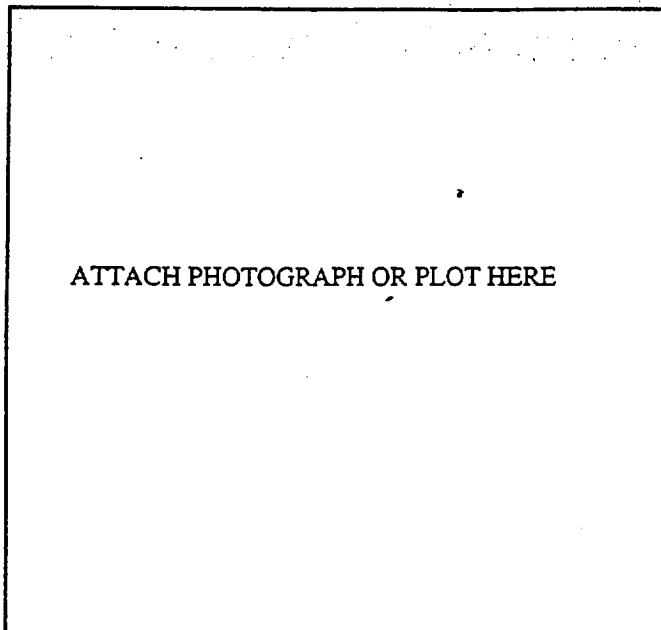
13 Aug 1998
21:54:48



AE-26156/4Q
23 Jun 98

TEST DATA SHEET 11 (Sheet 2 of 2)
Synchronization Signals Relationship (Paragraph 3.2.4.3.2.5)

A1 Select pulse and the C1 Shift pulse.



ATTACH PHOTOGRAPH OR PLOT HERE

Verify that the timing between I and E is as shown in Figure 13.

TIME MEASURED: 24.45

TIME REQUIRED: 24 μ s \pm 10%

PASS/FAIL P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 48113 S/N: 105

C. Gallegos 8-13-98
Customer Representative Date
(Flight Hardware Only)

8/13/98
Test Systems Engineer 7A Date
Quality Control 157 Date

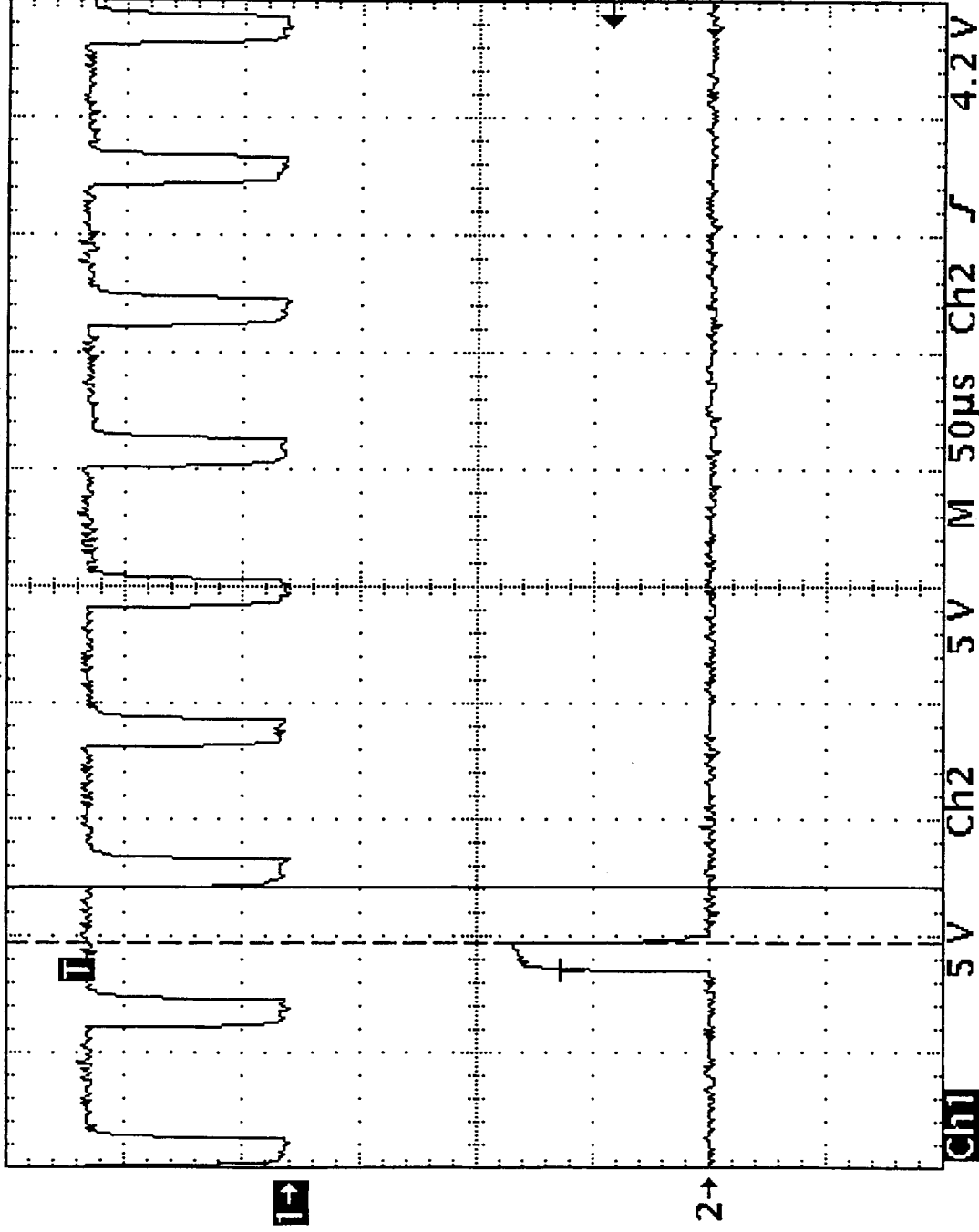
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—

—

Tek Stop 1MS/s

614 Acqs

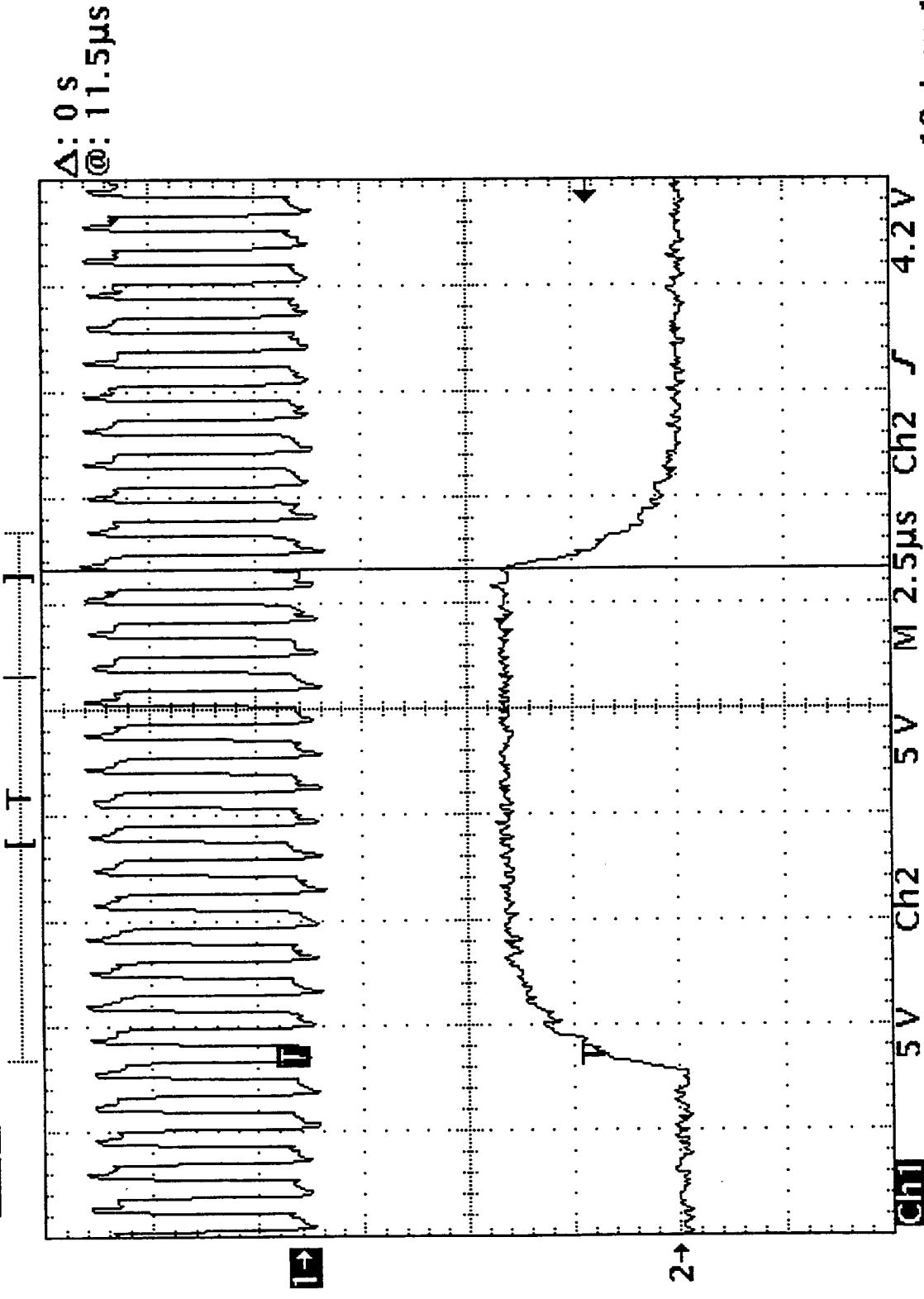


13 Aug 1998
22:03:18

Support Data for TDS 11 (Sheet 2) 1st CPT

S/O 484113

Tek Stop: 20MS/s 718 Acqs



13 Aug 1998
22:07:32

Support Data for TDS12 1st CPT S/o 484113 (

TEST DATA SHEET 12
Synchronization Signals Relationship (Paragraph 3.2.4.3.2.5)

A1 Select pulse and the 1.248 MHz clock.

Verify that the timing between I and J is as shown
in Figure 13.

PASS/FAIL

P

ATTACH PHOTOGRAPH OR PLOT HERE

METSAT/AMSU A2 System CPT P/N IS-1331200 Shop Order: 48H113 S/N: 105
Circle Test: 1st CPT Final CPT Sub CPT



8/13/98

St. Halacgas 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer 8-13-98 Date
Quality Control 8-13-98 Date

—

—

—

TEST DATA SHEET 13

Commands and Digital-B Telemetry Verification (Paragraphs 3.2.4.3.3.1, 3.2.4.3.3.2, and 3.2.4.3.3.3)

Test	Digital-B Commands Verification Via STE			Visual Inspection		Pass/Fail
	Command	Observed	Required	Observed	Required	
3.2.4.3.3.1 Module Totally Off	Scanner A2	OFF	OFF	ANTENNA POINTING TO WARM LOAD	Antenna pointing to warm load.	P
	Module Power	DISCONNECT	Disconnect	N/A	N/A	P
	Survival Htr. Power.	OFF	OFF	28V SUPPLY CURRENT=0	28V supply current=0	P
3.2.4.3.3.2 Survival Heater Power	Survival Heater ON	ON	ON	N/A	N/A	P
	Survival Heater OFF	OFF	OFF	N/A	N/A	P
3.2.4.3.3.3 Module Power Connect	Module Power	CONNECT	Connect	0.7 A	+28V DC current is between 0.5 and 3.2 amps.	P

METSAT/AMSU A2 System CPT P/N IS-1331200 Shop Order: 484113 S/N: 105
Circle Test: 1st CPT Final CPT Sub CPT _____

C. Galacges 8-13-98
Customer Representative Date
(Flight Hardware Only)

8/11/98
Test System Engineer Date
Quality Control Date

TEST DATA SHEET 14
Scanner Commands Verification (Paragraph 3.2.4.3.3.4, Step 1)

Test	Digital "B" Verification			Pass/Fail
	Command	Observed	Required	
Full Scan	1 Module Power	CONNECT	CONNECT	CONNECT P
	2 Survival Heater	OFF	OFF	P
	3 Scanner A2 Power	ON	ON	P
	4 Compensator Motor Power	ON	ON	P
	5 Antenna Warm Cal Pos.	NO	NO	P
	6 Antenna Cold Cal Pos.	NO	NO	P
	7 Antenna NADIR Position	NO	NO	P
	8 Antenna Full Scan	YES	YES	P
	9 Cold MSB	ZERO	0	P
	10 Cold LSB	ZERO	0	P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105



8/11/98

[Signature] 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer [Signature] Date
Quality Control [Signature] Date

TEST DATA SHEET 15
Scanner Commands Verification (Paragraph 3.2.4.3.3.4, Step 2)

Test	Digital "B" Verification			Pass/Fail
	Command	Observed	Required	
Full Scan	1 Module Power	CONNECT	CONNECT	P
	2 Survival Heater	OFF	OFF	P
	3 Scanner A2 Power	OFF	OFF	P
	4 Compensator Motor Power	OFF	OFF	P
	5 Antenna Warm Cal Pos.	NO	NO	P
	6 Antenna Cold Cal Pos.	NO	NO	P
	7 Antenna NADIR Position	NO	NO	P
	8 Antenna Full Scan	YES	YES	P
	9 Cold MSB	ZERO	0	P
	10 Cold LSB	ZERO	0	P

METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 484113

S/N: 105

Circle Test: 1st CPT Final CPT Sub CPT



8/11/98

E. Gallegos 8-13-98

Customer Representative
(Flight Hardware Only)

Date

Test Systems Engineer

Date
AUG 13 '98

Quality Control

Date


TEST DATA SHEET 16
Scanner Commands Verification (Paragraph 3.2.4.3.3.4, Step 3)

Test	Digital "B" Verification			Pass/Fail
	Command	Observed	Required	
Full Scan	1 Module Power	CONNECT	CONNECT	P
	2 Survival Heater	OFF	OFF	P
	3 Scanner A2 Power	ON	ON	P
	4 Compensator Motor Power	ON	ON	P
	5 Antenna Warm Cal Pos.	NO	NO	P
	6 Antenna Cold Cal Pos.	NO	NO	P
	7 Antenna NADIR Position	NO	NO	P
	8 Antenna Full Scan	YES	YES	P
	9 Cold MSB	ZERO	0	P
	10 Cold LSB	ZERO	0	P

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

C. Valacer 8-13-98
Customer Representative Date
(Flight Hardware Only)



8/11/98
Test Systems Engineer Date
AUG 13 '98
Quality Control Date



AE-26156/40
23 Jun 98

TEST DATA SHEET 17
Scanner Positions Commands (Paragraph 3.2.4.3.3.5)

Test	Digital "B" Verification			Pass/Fail	
	Step/Description		Observed		Required
Scanner Position Commands	1-Warm Cal.		YES	YES	P
	3-Cold Cal.	MSB	ZERO	0	P
	Pos.	LSB	ONE	1	P
	5-Cold Cal.	MSB	ONE	1	P
	Pos.	LSB	ZERO	0	P
	7-Cold Cal.	MSB	ONE	1	P
	Pos.	LSB	ONE	1	P
	9-Cold Cal.	MSB	ZERO	0	P
	Pos.	LSB	ZERO	0	P
	11-NADIR		YES	YES	P
13-Warm Cal		YES	YES	P	

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105



8/11/98

J. Galazca 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer Date
Quality Control Date
AUG 13 '98

TEST DATA SHEET 18
Digital-A Data Output Full Scan Mode Synch Sequence,
Unit I.D./Serial Number and Digital-B Serial Data Verification
Sections [I], [II], and [III] (Paragraph 3.2.4.3.4.1)

Step	Element (For Ref)	Description	Recorded Value	Required Value	Pass/Fail
[I]	0001	Sync Sequence Byte 1	255	255	P
	0002	Sync Sequence Byte 2	255	255	P
	0003	Sync Sequence Byte 3	255	255	P
[II]	0004	Unit I.D. and Serial N	18	*	P
[III]	0005	Digital B Data Byte 1	2	2	P
	0006	Digital B Data Byte 2	6	6	P
	0007	Digital B Data Byte 3	0	0	P
	0008	Digital B Data Byte 4	0	0	P

* AMSU A2 Identification Words
(data entered in decimal system)

Binary

Decimal

AMSU-A2 S/N 101

00000010

2

AMSU-A2 S/N 102

00000110

6

AMSU-A2 S/N 103

00001010

10

AMSU-A2 S/N 104

00001110

14

AMSU-A2 S/N 105

00010010

18

AMSU-A2 S/N 106

00010110

22

AMSU-A2 S/N 107

00011010

26

AMSU-A2 S/N 108

00011110

30

AMSU-A2 S/N 109

00100010

34



METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 484113

S/N: 105

Circle Test: 1st CPT Final CPT Sub CPT

G. Kalaczan 8-13-98
Customer Representative Date
(Flight Hardware Only)


Test Systems Engineer

Quality Control

8/11/98
Date
AUG 13 '98
Date

Found in trash - 8/12/98 Why? Aug 11 8/11/98

TEST DATA SHEET 19
Reflector Positions Section [IV] (Paragraph 3.2.4.3.4.1)

VOID
8/13/98
AMSU 1 BEIT

8/11/98
AMSU 1 BEIT

8/11/98
AMSU 1 BEIT

8/11/98
AMSU 1 BEIT

BP	A2 Reflector		
	Position*	Required**	Pass/Fail
01	6656	6657	P
02	6508	6505	P
03	6356	6353	P
04	6205	6202	P
05	6052	6050	P
06	5900	5898	P
07	5749	5747	P
08	5597	5595	P
09	5445	5443	P
10	5293	5292	P
11	5142	5140	P
12	4991	4988	P
13	4839	4837	P
14	4688	4685	P
15	4536	4533	P
16	4384	4382	P
17	4233	4230	P
18	4081	4078	P
19	3929	3927	P
20	3778	3775	P
21	3627	3623	P
22	3476	3472	P
23	3323	3320	P
24	3172	3168	P
25	3020	3017	P
26	2868	2865	P
27	2716	2713	P
28	2564	2562	P
29	2413	2410	P
30	2260	2258	P
CL	665	665	P
WL	126501	12650	P

*This test data sheet is deleted.
Replace w/ another test datasheet for
clarity - Aug 11 8/11/98*

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
** Required position data from TDS 6 of AE-26002/2 ± 5 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 484113

SN: 105

Circle Test: 1st CPT Final CPT Sub CPT

AMSU 1 BEIT

8/11/98

Aug 11 8/11/98

Test Systems Engineer

Date 8/11/98

Quality Control

Date

Customer Representative
(Flight Hardware Only)

Date

—

—

—

TEST DATA SHEET 19
 Reflector Positions Section [IV] (Paragraph 3.2.4.3.4.1)

BP	A2 Reflector		
	Position*	Required**	Pass/Fail
01		6657	P
02		6505	
03		6353	
04		6202	
05		6050	
06		5898	
07		5747	
08		5595	
09		5443	
10		5292	
11		5140	
12		4988	
13		4837	
14		4685	
15		4533	
16		4382	
17		4230	
18		4078	
19		3927	
20		3775	
21		3623	
22		3472	
23		3320	
24		3168	
25		3017	
26		2865	
27		2713	
28		2562	
29		2410	
30		2258	
CL		665	↓
WL		12650	P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
 ** Required position data from TDS 6 of AE-26002/2 ±5 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: (1st CPT) Final CPT Sub CPT

Shop Order: 484113 S/N: 105



J. Valacqac 8-13-98
 Customer Representative Date
 (Flight Hardware Only)

8/11/98
 Test Systems Engineer Date
[Signature] 8/13/98
 Quality Control Date

TEST DATA SHEET 20
Digital-A Data Output Radiometer Data Section [V] (Paragraph 3.2.4.3.4.1)


BP	Channel-1 (23.8 GHz)			Channel-2 (31.4 GHz)		
	Measured*	Required**	Pass/Fail	Measured*	Required**	Pass/Fail
01			P			P
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
CC			✓			✓
WL			P			P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
 ** Required = 16,500 ± 4000 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: (1st CPT) Final CPT Sub CPT

Shop Order: 484113 S/N: 105

G. Valasek 8-13-98
 Customer Representative Date
 (Flight Hardware Only)



Test Systems Engineer Date
8/11/98
 Quality Control Date
8-13-98

TEST DATA SHEET 20
Digital-A Data Output Radiometer Data Section [V] (Paragraph 3.2.4.3.4.1)

BP	Channel-1 (23.8 GHz)			Channel-2 (31.4 GHz)		
	Measured*	Required**	Pass/Fail	Measured*	Required**	Pass/Fail
01	16316		P	16218		P
02	16309			16202		
03	16312			16211		
04	16315			16210		
05	16318			16206		
06	16308			16209		
07	16315			16205		
08	16313			16207		
09	16312			16199		
10	16311			16204		
11	16315			16206		
12	16316			16207		
13	16315			16206		
14	16316			16209		
15	16324			16217		
16	16331			16223		
17	16320			16208		
18	16329			16206		
19	16327			16212		
20	16333			16223		
21	16345			16215		
22	16343			16219		
23	16372			16232		
24	16395			16254		
25	16383			16253		
26	16360			16229		
27	16362			16231		
28	16357			16221		
29	16342			16217		
30	16347			16232		
CC	16350		✓	16234		✓
WL	16297		P	16194		P

VOID
4/13/98
AMSU
1
SEIT

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
** Required = 16,500 ± 4000 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105



[Signature]
Customer Representative Date 8-13-98
(Flight Hardware Only)

Test Systems Engineer Date

Quality Control Date

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TEST DATA SHEET 21
 Full Scan Mode Temperature Sensors Section [VI] (Paragraph 3.2.4.3.4.1)

Thermistor Sensors		Recorded Value* (deg. C)	Required Value (deg. C)	Pass/ Fail
Element	Description			
0262	Warm Load 1 SCAN MOTOR		25 ± 15	P
0264	Warm Load 2 FEED HORN		25 ± 15	
0266	Warm Load 3 RF MUX		25 ± 15	
0268	Warm Load 4 MIXER/IF AMP CHANNEL 1		25 ± 15	
0270	Warm Load 5 MIXER/IF AMP CHANNEL 2		25 ± 15	
0272	Warm Load 6 LOCAL OSCILLATOR CHANNEL 1		25 ± 15	
0274	Warm Load Center LOCAL OSCILLATOR CHANNEL 2		25 ± 15	
0276	Scan Motor COMPENSATION MOTOR		25 ± 15	
0278	Compensation Motor SUBREFLECTOR		25 ± 15	
0280	Feedhorn DC/DC CONVERTER		25 ± 15	
0282	RF Mux RF SHELF		25 ± 15	
0284	Mixer I.F. Amp. Channel 1 DETECTOR/PREAMP		25 ± 15	
0286	Mixer I.F. Amp. Channel 2 WARM LOAD CENTER		25 ± 15	
0288	Subreflector WARM LOAD 1		25 ± 15	
0290	DC/DC Converter WARM LOAD 2		25 ± 15	
0292	RF Shelf WARM LOAD 3		25 ± 15	
0294	Detector/Preamp Assembly WARM LOAD 4		25 ± 15	
0296	Local Oscillator Channel 1 WARM LOAD 5		25 ± 15	
0298	Local Oscillator Channel 2 WARM LOAD 6		25 ± 15	✓
0300	Temp Sensor V. Reference		**	P

* Value is from the STE printout sheets. Copying data to this sheet is optional.
 ** Count of 24,552 +1765, -1308.

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

J. Galavias 8-13-98
 Customer Representative Date
 (Flight Hardware Only)

8/11/98
Test Systems Engineer Date
Quality Control Date

TEST DATA SHEET 22
Digital-A Data Output Warm Cal Mode Synch Sequence,
Unit I.D./Serial Number and Digital-B Serial Data Verification
Sections [I], [II], and [III] (Paragraph 3.2.4.3.4.2)

Step	Element (For Ref)	Description	Recorded Value	Required Value	Pass/Fail
[I]	0001	Sync Sequence Byte 1	255	255	P
	0002	Sync Sequence Byte 2	255	255	P
	0003	Sync Sequence Byte 3	255	255	P
[II]	0004	Unit I.D. and Serial N	18	*	P
[III]	0005	Digital B Data Byte 1	4	4	P
	0006	Digital B Data Byte 2	6	6	P
	0007	Digital B Data Byte 3	0	0	P
	0008	Digital B Data Byte 4	0	0	P

* AMSU A2 Identification Words (data entered in decimal system)	Binary	Decimal
AMSU-A2 S/N 101	00000010	2
AMSU-A2 S/N 102	00000110	6
AMSU-A2 S/N 103	00001010	10
AMSU-A2 S/N 104	00001110	14
AMSU-A2 S/N 105	00010010	18
AMSU-A2 S/N 106	00010110	22
AMSU-A2 S/N 107	00011010	26
AMSU-A2 S/N 108	00011110	30
AMSU-A2 S/N 109	00100010	34

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

P. Galasgao 8-13-98
Customer Representative Date
(Flight Hardware Only)

8/11/98
Date
AUG 13 98
Test Systems Engineer
Quality Control Date

SUPPORT DATA FOR TDS 18-21 1ST CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 11-AUG-98 19:39:27 SCAN NUMBER 2
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON 3

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4230
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16428
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16275
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16429
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16282
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16424	158	SCENE DATA BP 19 CH 1	16432
16	CH 2	16286	160	CH 2	16283
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16417	166	SCENE DATA BP 20 CH 1	16437
24	CH 2	16276	168	CH 2	16296
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3624
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16418	174	SCENE DATA BP 21 CH 1	16445
32	CH 2	16282	176	CH 2	16294
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16421	182	SCENE DATA BP 22 CH 1	16449
40	CH 2	16287	184	CH 2	16295
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16423	190	SCENE DATA BP 23 CH 1	16474
48	CH 2	16281	192	CH 2	16305
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16421	198	SCENE DATA BP 24 CH 1	16503
56	CH 2	16283	200	CH 2	16332
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16425	206	SCENE DATA BP 25 CH 1	16484
64	CH 2	16279	208	CH 2	16324
66	REFLECTOR POSITION 8	5596	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16424	214	SCENE DATA BP 26 CH 1	16465
72	CH 2	16283	216	CH 2	16299
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2713
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16423	222	SCENE DATA BP 27 CH 1	16468
80	CH 2	16278	224	CH 2	16303
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16420	230	SCENE DATA BP 28 CH 1	16459
88	CH 2	16281	232	CH 2	16290
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16425	238	SCENE DATA BP 29 CH 1	16450
96	CH 2	16283	240	CH 2	16293
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16425	246	SCENE DATA BP 30 CH 1	16449
104	CH 2	16285	248	CH 2	16295
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	666
110	SCENE DATA BP 13 CH 1	16422	254	COLD CAL DATA 1 CH 1	16449
112	CH 2	16282	256	CH 2	16304
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16448
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16306
118	SCENE DATA BP 14 CH 1	16426	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16279	304	REFL WARM CAL 2ND LOOK	12651
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16411
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16270
126	SCENE DATA BP 15 CH 1	16430	310	WARM CAL DATA 2 CH 1	16405
128	CH 2	16287	312	CH 2	16271
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16430			
136	CH 2	16302			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17652	22.88
264	FEED HORN	17923	22.87
266	RF MUX	18104	23.10
268	MIXER/IF AMPLIFIER CHANNEL 1	17994	22.92
270	MIXER/IF AMPLIFIER CHANNEL 2	18030	23.55
272	LOCAL OSCILLATOR CHANNEL 1	17806	23.38
274	LOCAL OSCILLATOR CHANNEL 2	18158	23.54
276	COMPENSATION MOTOR	17790	23.36
278	SUB REFLECTOR	17982	22.60
280	DC/DC CONVERTER	18309	24.34
282	RF SHELF	17645	23.05
284	DETECTOR/PREAMP ASSEMBLY	18045	23.17
286	WARM LOAD CENTER	22940	23.15
288	WARM LOAD 1	23012	23.35
290	WARM LOAD 2	22905	23.02
292	WARM LOAD 3	22826	23.21
294	WARM LOAD 4	22891	22.85
296	WARM LOAD 5	22984	23.15
298	WARM LOAD 6	23304	22.89
300	TEMP SENSOR REFERENCE VOLTAGE	24999	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	216	-273.1	216	-273.1	217	-273.1
COMPENSATOR MOTOR TEMPERATURE	216	-273.1	216	-273.1	217	-273.1
SCANNER MOTOR TEMPERATURE	216	-273.1	216	-273.1	217	-273.1
WARM LOAD TEMPERATURE	216	-273.1	216	-273.1	216	-273.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	67	0.00	72	0.00	77	0.00
COMPENSATOR MOTOR CURRENT (AVERAGE)	64	0.00	69	0.00	74	0.00
SIGNAL PROCESSING +15 VDC	170	0.00	170	0.00	171	0.00
ANTENNA DRIVE +15 VDC	170	0.00	171	0.00	171	0.00
SIGNAL PROCESSING -15 VDC	148	0.00	148	0.00	148	0.00
ANTENNA DRIVE -15 VDC	148	0.00	149	0.00	149	0.00
RECEIVER +8 VDC	171	0.00	172	0.00	172	0.00
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	146	0.00	147	0.00	147	0.00
ANTENNA DRIVE +5 VDC	146	0.00	147	0.00	147	0.00
GUNN DIODE OSC #1 (CHANNEL 1) VDC	172	0.00	172	0.00	173	0.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	172	0.00	173	0.00	173	0.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

8/13/98



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 B
 AE-26156/40
 23 Jun 98

TEST DATA SHEET 23

 Reflector Position Warm Cal Mode Section [IV], Reflector Position Cold Cal Mode Section [IV], Reflector Position Nadir
 Mode Section [IV] (Paragraphs 3.2.4.3.4.2, 3.2.4.3.4.3, 3.2.4.3.4.4)

BP	Reflector			
	Para No.	Position*	Required**	Pass/Fail
WL	3.2.4.3.4.2, Step 5	12651	12650	P
CL	3.2.4.3.4.3, Step 5			
	a.	667	665	P
	b.	740	741	P
	c.	816	817	P
	d.	967-968	968	P
15	3.2.4.3.4.4, Step 5	4534	4533	P

WL = Warm Load
 CL = Cold Load
 15 = Nadir Position

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
 ** Required position data from TDS 6 of AE-26002/2 ± 5 counts.

3.2.4.3.4.3, Step 5 Substep	MSB	LSB
a.	0	0
b.	0	1
c.	1	0
d.	1	1

METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 484113

SN: 105

Circle Test: 1st CPT Final CPT Sub CPT

8/11/98

 Customer Representative Date
 (Flight Hardware Only)

Test System Engineer

Date

Quality Control

Date

TEST DATA SHEET 24
Digital-A Data Output Warm Cal Mode Radiometer Data Section [V] (Paragraph 3.2.4.3.4.2)


BP	Channel-1 (23.8 GHz)				Channel-2 (31.4 GHz)			
	Element (For Ref)	Measured*	Required**	Pass/Fail	Element (For Ref)	Measured*	Required**	Pass/Fail
01	0014			P	0016			P
02	0022				0024			
03	0030				0032			
04	0038				0040			
05	0046				0048			
06	0054				0056			
07	0062				0064			
08	0070				0072			
09	0078				0080			
10	0086				0088			
11	0094				0096			
12	0102				0104			
13	0110				0112			
14	0118				0120			
15	0126				0128			
16	0134				0136			
17	0142				0144			
18	0150				0152			
19	0158				0160			
20	0166				0168			
21	0174				0176			
22	0182				0184			
23	0190				0192			
24	0198				0200			
25	0206				0208			
26	0214				0216			
27	0222				0224			
28	0230				0232			
29	0238				0240			
30	0246				0248			
CC	0258		O	↓	0260		O	↓
WL	0310		O	P	0312		O	P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
** Required = 16,500 ± 4000 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

C. Kalograc 8-13-98
Customer Representative Date
(Flight Hardware Only)


Test Systems Engineer 8/11/98 Date
8/13/98
Quality Control Date


8/11/98

SUPPORT DATA FOR TDS 23 1st CPT S/O 484113

AMSU A2-18 A2.EXE COLD CAL MODE 11-AUG-98 20:18:07 SCAN NUMBER 289
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

REFLECTOR POSITIONS

BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	667	667	9	667	667	17	667	667	25	667	667
2	667	667	10	667	667	18	667	667	26	667	667
3	667	667	11	667	667	19	667	667	27	667	667
4	667	667	12	667	667	20	667	667	28	667	667
5	667	667	13	667	667	21	667	667	29	667	667
6	667	667	14	667	667	22	667	667	30	667	667
7	667	667	15	667	667	23	667	667	CC	0	0
8	667	667	16	667	667	24	667	667	WC	0	0

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 2

AMSU A2-18 A2.EXE COLD CAL MODE
[5] DIGITAL A DATA ELEMENT 0000

11-AUG-98 20:18:45 SCAN NUMBER 294

[6] DIGITAL B DATA ELEMENT 00

[7] ANALOG DATA ELEMENT 00

REFLECTOR POSITIONS

BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	740	740	9	740	740	17	740	740	25	740	740
2	740	740	10	740	740	18	740	740	26	740	740
3	740	740	11	740	740	19	740	740	27	740	740
4	740	740	12	740	740	20	740	740	28	740	740
5	740	740	13	740	740	21	740	740	29	740	740
6	740	740	14	740	740	22	740	740	30	740	740
7	740	740	15	740	740	23	740	740	CC	0	0
8	740	740	16	740	740	24	740	740	WC	0	0

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 2

AMSU A2-18 A2.EXE COLD CAL MODE 11-AUG-98 20:19:47 SCAN NUMBER 302
[5] DIGITAL A DATA ELEMENT 0000
5] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

REFLECTOR POSITIONS											
BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	816	816	9	816	816	17	816	816	25	816	816
2	816	816	10	816	816	18	816	816	26	816	816
3	816	816	11	816	816	19	816	816	27	816	816
4	816	816	12	816	816	20	816	816	28	816	816
5	816	816	13	816	816	21	816	816	29	816	816
6	816	816	14	816	816	22	816	816	30	816	816
7	816	816	15	816	816	23	816	816	CC	0	0
8	816	816	16	816	816	24	816	816	WC	0	0

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 2

AMSU A2-18 A2.EXE COLD CAL MODE
[5] DIGITAL A DATA ELEMENT 0000

11-AUG-98 20:20:44 SCAN NUMBER 309

6] DIGITAL B DATA ELEMENT 00

[7] ANALOG DATA ELEMENT 00

REFLECTOR POSITIONS

BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	968	967	9	968	967	17	968	967	25	968	968
2	967	968	10	967	968	18	968	967	26	968	967
3	968	967	11	968	968	19	967	968	27	967	968
4	967	968	12	968	967	20	968	967	28	968	968
5	968	968	13	967	968	21	967	968	29	968	967
6	968	967	14	968	968	22	968	968	30	967	968
7	967	968	15	968	967	23	968	967	CC	0	0
8	968	968	16	967	968	24	967	968	WC	0	0

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 2

8/13/98
 QC 223
 AMSU 1 SET

B
 AE-26156/40
 23 Jun 98

TEST DATA SHEET 25
 Warm Cal Mode Temperature Sensors Section [VI] (Paragraph 3.2.4.3.4.2)

Thermistor Sensors		Recorded Value* (deg. C)	Required Value (deg. C)	Pass/Fail
Element	Description			
0262	Warm Load 1 <i>SCAN MOTOR</i>		25 ± 15	P
0264	Warm Load 2 <i>FEED HORN</i>		25 ± 15	
0266	Warm Load 3 <i>RF MUX</i>		25 ± 15	
0268	Warm Load 4 <i>MIXER/IF AMP CHANNEL 1</i>		25 ± 15	
0270	Warm Load 5 <i>MIXER/IF AMP CHANNEL 2</i>		25 ± 15	
0272	Warm Load 6 <i>LOCAL OSCILLATOR CHANNEL 1</i>		25 ± 15	
0274	Warm Load Center <i>LOCAL OSCILLATOR CHANNEL 2</i>		25 ± 15	
0276	Scan Motor <i>COMPENSATION MOTOR</i>		25 ± 15	
0278	Compensation Motor <i>SUB REFLECTOR</i>		25 ± 15	
0280	Feedhorn <i>DC/DC CONVERTER</i>		25 ± 15	
0282	RF Mux <i>RF SHELF</i>		25 ± 15	
0284	Mixer I.F. Amp. Channel 1 <i>DETECTOR/PREAMP</i>		25 ± 15	
0286	Mixer I.F. Amp. Channel 2 <i>WARM LOAD CENTER</i>		25 ± 15	
0288	Subreflector <i>WARM LOAD 1</i>		25 ± 15	
0290	DC/DC Converter <i>WARM LOAD 2</i>		25 ± 15	
0292	RF Shelf <i>WARM LOAD 3</i>		25 ± 15	
0294	Detector/Preamp Assembly <i>WARM LOAD 4</i>		25 ± 15	
0296	Local Oscillator Channel 1 <i>WARM LOAD 5</i>		25 ± 15	
0298	Local Oscillator Channel 2 <i>WARM LOAD 6</i>		25 ± 15	↓
0300	Temp Sensor V. Reference		**	P

* Value is from the STE printout sheets. Copying data to this sheet is optional.
 ** Count of 24,552 +1765, -1308.

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

C. Halasz 8-13-98
 Customer Representative Date
 (Flight Hardware Only)

8/11/98
 Test Systems Engineer Date
(Signature) 8-13-98
 Quality Control Date

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SUPPORT DATA FOR TDS 22-25 1ST CPT S/O 484113

AMSU A2-18 A2.EXE WARM CAL MODE 11-AUG-98 20:02:01 SCAN NUMBER 170
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = YES

POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON 3

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MENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	12651
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	12651
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16301
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16199
5	DIGITAL B DATA BYTE 1	00000100	146	REFLECTOR POSITION 18	12651
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	12651
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16300
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16203
10	REFLECTOR POSITION 1	12651	154	REFLECTOR POSITION 19	12651
12	REFL POS 1 2ND LOOK	12651	156	REFL POS 19 2ND LOOK	12651
14	SCENE DATA BP 1 CH 1	16303	158	SCENE DATA BP 19 CH 1	16296
16	CH 2	16205	160	CH 2	16203
18	REFLECTOR POSITION 2	12651	162	REFLECTOR POSITION 20	12651
20	REFL POS 2 2ND LOOK	12651	164	REFL POS 20 2ND LOOK	12651
22	SCENE DATA BP 2 CH 1	16298	166	SCENE DATA BP 20 CH 1	16298
24	CH 2	16203	168	CH 2	16201
26	REFLECTOR POSITION 3	12651	170	REFLECTOR POSITION 21	12651
28	REFL POS 3 2ND LOOK	12651	172	REFL POS 21 2ND LOOK	12651
30	SCENE DATA BP 3 CH 1	16297	174	SCENE DATA BP 21 CH 1	16302
32	CH 2	16198	176	CH 2	16198
34	REFLECTOR POSITION 4	12651	178	REFLECTOR POSITION 22	12651
36	REFL POS 4 2ND LOOK	12651	180	REFL POS 22 2ND LOOK	12651
38	SCENE DATA BP 4 CH 1	16301	182	SCENE DATA BP 22 CH 1	16301
40	CH 2	16199	184	CH 2	16200
42	REFLECTOR POSITION 5	12651	186	REFLECTOR POSITION 23	12651
44	REFL POS 5 2ND LOOK	12651	188	REFL POS 23 2ND LOOK	12651
46	SCENE DATA BP 5 CH 1	16303	190	SCENE DATA BP 23 CH 1	16300
48	CH 2	16200	192	CH 2	16198
50	REFLECTOR POSITION 6	12651	194	REFLECTOR POSITION 24	12651
52	REFL POS 6 2ND LOOK	12651	196	REFL POS 24 2ND LOOK	12651
54	SCENE DATA BP 6 CH 1	16298	198	SCENE DATA BP 24 CH 1	16302
56	CH 2	16200	200	CH 2	16193
58	REFLECTOR POSITION 7	12651	202	REFLECTOR POSITION 25	12651
60	REFL POS 7 2ND LOOK	12651	204	REFL POS 25 2ND LOOK	12651
62	SCENE DATA BP 7 CH 1	16298	206	SCENE DATA BP 25 CH 1	16298
64	CH 2	16203	208	CH 2	16202
66	REFLECTOR POSITION 8	12651	210	REFLECTOR POSITION 26	12651
68	REFL POS 8 2ND LOOK	12651	212	REFL POS 26 2ND LOOK	12651
70	SCENE DATA BP 8 CH 1	16298	214	SCENE DATA BP 26 CH 1	16303
72	CH 2	16201	216	CH 2	16204
74	REFLECTOR POSITION 9	12651	218	REFLECTOR POSITION 27	12651
76	REFL POS 9 2ND LOOK	12651	220	REFL POS 27 2ND LOOK	12651
78	SCENE DATA BP 9 CH 1	16299	222	SCENE DATA BP 27 CH 1	16299
80	CH 2	16197	224	CH 2	16201
82	REFLECTOR POSITION 10	12651	226	REFLECTOR POSITION 28	12651
84	REFL POS 10 2ND LOOK	12651	228	REFL POS 28 2ND LOOK	12651
86	SCENE DATA BP 10 CH 1	16300	230	SCENE DATA BP 28 CH 1	16299
88	CH 2	16199	232	CH 2	16200
90	REFLECTOR POSITION 11	12651	234	REFLECTOR POSITION 29	12651
92	REFL POS 11 2ND LOOK	12651	236	REFL POS 29 2ND LOOK	12651

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16299	238	SCENE DATA BP 29 CH 1	16298
96	CH 2	16207	240	CH 2	16198
98	REFLECTOR POSITION 12	12651	242	REFLECTOR POSITION 30	12651
100	REFL POS 12 2ND LOOK	12651	244	REFL POS 30 2ND LOOK	12651
102	SCENE DATA BP 12 CH 1	16301	246	SCENE DATA BP 30 CH 1	16298
104	CH 2	16203	248	CH 2	16196
106	REFLECTOR POSITION 13	12651	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	12651	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16299	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16201	256	CH 2	0
114	REFLECTOR POSITION 14	12651	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	12651	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16298	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16207	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	12651	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	12651	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16299	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16201	312	CH 2	0
130	REFLECTOR POSITION 16	12651			
132	REFL POS 16 2ND LOOK	12651			
134	SCENE DATA BP 16 CH 1	16301			
136	CH 2	16204			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17641	22.86
264	FEED HORN	17962	22.95
266	RF MUX	18338	23.54
268	MIXER/IF AMPLIFIER CHANNEL 1	18431	23.75
270	MIXER/IF AMPLIFIER CHANNEL 2	18531	24.51
272	LOCAL OSCILLATOR CHANNEL 1	18179	24.09
274	LOCAL OSCILLATOR CHANNEL 2	18826	24.82
276	COMPENSATION MOTOR	17869	23.51
278	SUB REFLECTOR	17874	22.40
280	DC/DC CONVERTER	19593	26.81
282	RF SHELF	17827	23.39
284	DETECTOR/PREAMP ASSEMBLY	18263	23.58
286	WARM LOAD CENTER	22881	23.03
288	WARM LOAD 1	22977	23.28
290	WARM LOAD 2	22878	22.97
292	WARM LOAD 3	22783	23.13
294	WARM LOAD 4	22820	22.71
296	WARM LOAD 5	22908	23.00
298	WARM LOAD 6	23253	22.79
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	YES	YES	YES
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
COMPENSATOR MOTOR TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
SCANNER MOTOR TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
WARM LOAD TEMPERATURE	218	-273.1	218	-273.1	218	-273.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	4	0.00	4	0.00	4	0.00
COMPENSATOR MOTOR CURRENT (AVERAGE)	4	0.00	4	0.00	4	0.00
SIGNAL PROCESSING +15 VDC	173	0.00	173	0.00	173	0.00
ANTENNA DRIVE +15 VDC	173	0.00	173	0.00	173	0.00
SIGNAL PROCESSING -15 VDC	150	0.00	150	0.00	150	0.00
ANTENNA DRIVE -15 VDC	150	0.00	150	0.00	150	0.00
RECEIVER +8 VDC	174	0.00	174	0.00	174	0.00
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	0.00	149	0.00	149	0.00
ANTENNA DRIVE +5 VDC	149	0.00	149	0.00	149	0.00
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	0.00	175	0.00	175	0.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	0.00	175	0.00	175	0.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

TEST DATA SHEET 26
Digital-A Data Output Cold Cal Mode Synch Sequence,
Unit I.D./Serial Number and Digital-B Serial Data Verification
Sections [I], [II], and [III] (Paragraph 3.2.4.3.4.3)

Step	Element (For Ref)	Description	Recorded Value	Required Value	Pass/Fail
[I]	0001	Sync Sequence Byte 1	255	255	P
	0002	Sync Sequence Byte 2	255	255	P
	0003	Sync Sequence Byte 3	255	255	P
[II]	0004	Unit I.D. and Serial N	18	*	P
[III]	0005	Digital B Data Byte 1	8	8	P
	0006	Digital B Data Byte 2	6	6	P
	0007	Digital B Data Byte 3	0	0	P
	0008	Digital B Data Byte 4	0	0	P

* AMSU A2 Identification Words
(data entered in decimal system)

	Binary	Decimal
AMSU-A2 S/N 101	00000010	2
AMSU-A2 S/N 102	00000110	6
AMSU-A2 S/N 103	00001010	10
AMSU-A2 S/N 104	00001110	14
AMSU-A2 S/N 105	00010010	18
AMSU-A2 S/N 106	00010110	22
AMSU-A2 S/N 107	00011010	26
AMSU-A2 S/N 108	00011110	30
AMSU-A2 S/N 109	00100010	34

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: (1st CPT) Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105



C. Valdez 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer
(268)

8/11/98
Date
AUG 13 '98

Quality Control Date

—

—

—

B
AE-26156/40

23 Jun 98



8/13/98

TEST DATA SHEET 27

Digital-A Data Output Cold Cal Mode Radiometer Data Section [V] (Paragraph 3.2.4.3.4.3)

Condition: Cold Cal Position MSB=0 and Cold Cal Position LSB=0

BP	Channel-1 (23.8 GHz)				Channel-2 (31.4 GHz)			
	Element (For Ref)	Measured*	Required**	Pass/Fail	Element (For Ref)	Measured*	Required**	Pass/Fail
01	0014			P	0016			P
02	0022				0024			
03	0030				0032			
04	0038				0040			
05	0046				0048			
06	0054				0056			
07	0062				0064			
08	0070				0072			
09	0078				0080			
10	0086				0088			
11	0094				0096			
12	0102				0104			
13	0110				0112			
14	0118				0120			
15	0126				0128			
16	0134				0136			
17	0142				0144			
18	0150				0152			
19	0158				0160			
20	0166				0168			
21	0174				0176			
22	0182				0184			
23	0190				0192			
24	0198				0200			
25	0206				0208			
26	0214				0216			
27	0222				0224			
28	0230				0232			
29	0238				0240			
30	0246				0248			
CC	0258		0	✓	0260		0	✓
WL	0310		0	P	0312		0	P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.

** Required = $16,500 \pm 4000$ counts.

METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 484113 S/N: 105Circle Test: (1st CPT) Final CPT Sub CPT

8/11/98

C. Yalagac 8-13-98Customer Representative
(Flight Hardware Only)

Date

Test Systems Engineer

Quality Control

Date
AUG 13 98

Date

TEST DATA SHEET 28
Cold Cal Mode Temperature Sensors Section [VI] (Paragraph 3.2.4.3.4.3)

Thermistor Sensors		Recorded Value* (deg. C)	Required Value (deg. C)	Pass/ Fail
Element	Description			
0262	Warm Load 1 SCAN MOTOR		25 ± 15	P
0264	Warm Load 2 FEED HORN		25 ± 15	
0266	Warm Load 3 RF MUX		25 ± 15	
0268	Warm Load 4 MIXER/IF AMP CHANNEL 1		25 ± 15	
0270	Warm Load 5 MIXER/IF AMP CHANNEL 2		25 ± 15	
0272	Warm Load 6 LOCAL OSCILLATOR CHANNEL 1		25 ± 15	
0274	Warm Load Center LOCAL OSCILLATOR CHANNEL 2		25 ± 15	
0276	Scan Motor COMPENSATION MOTOR		25 ± 15	
0278	Compensation Motor SUBREFLECTOR		25 ± 15	
0280	Feedhorn DC/DC CONVERTER		25 ± 15	
0282	RF Mux RF SHELF		25 ± 15	
0284	Mixer I.F. Amp. Channel 1 DETECTOR/PREAMP		25 ± 15	
0286	Mixer I.F. Amp. Channel 2 WARM LOAD CENTER		25 ± 15	
0288	Subreflector WARM LOAD 1		25 ± 15	
0290	DC/DC Converter WARM LOAD 2		25 ± 15	
0292	RF Shelf WARM LOAD 3		25 ± 15	
0294	Detector/Preamp Assembly WARM LOAD 4		25 ± 15	
0296	Local Oscillator Channel 1 WARM LOAD 5		25 ± 15	
0298	Local Oscillator Channel 2 WARM LOAD 6		25 ± 15	↓
0300	Temp Sensor V. Reference		**	P

- * Value is from the STE printout sheets. Copying data to this sheet is optional.
** Count of 24,552 +1765, -1308.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

P. Galacgac 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer
(197)
Quality Control

8/11/98
Date
8-13-98
Date

AMSU A2-18 A2.EXE COLD CAL MODE 11-AUG-98 20:08:54 SCAN NUMBER 220
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = YES [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	667
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	667
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16347
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16236
5	DIGITAL B DATA BYTE 1	00001000	146	REFLECTOR POSITION 18	667
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	667
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16342
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16238
10	REFLECTOR POSITION 1	667	154	REFLECTOR POSITION 19	667
12	REFL POS 1 2ND LOOK	667	156	REFL POS 19 2ND LOOK	667
14	SCENE DATA BP 1 CH 1	16349	158	SCENE DATA BP 19 CH 1	16342
16	CH 2	16236	160	CH 2	16238
18	REFLECTOR POSITION 2	667	162	REFLECTOR POSITION 20	667
20	REFL POS 2 2ND LOOK	667	164	REFL POS 20 2ND LOOK	667
22	SCENE DATA BP 2 CH 1	16348	166	SCENE DATA BP 20 CH 1	16342
24	CH 2	16235	168	CH 2	16237
26	REFLECTOR POSITION 3	667	170	REFLECTOR POSITION 21	667
28	REFL POS 3 2ND LOOK	667	172	REFL POS 21 2ND LOOK	667
30	SCENE DATA BP 3 CH 1	16341	174	SCENE DATA BP 21 CH 1	16342
32	CH 2	16237	176	CH 2	16240
34	REFLECTOR POSITION 4	667	178	REFLECTOR POSITION 22	667
36	REFL POS 4 2ND LOOK	667	180	REFL POS 22 2ND LOOK	667
38	SCENE DATA BP 4 CH 1	16349	182	SCENE DATA BP 22 CH 1	16346
40	CH 2	16238	184	CH 2	16236
42	REFLECTOR POSITION 5	667	186	REFLECTOR POSITION 23	667
44	REFL POS 5 2ND LOOK	667	188	REFL POS 23 2ND LOOK	667
46	SCENE DATA BP 5 CH 1	16346	190	SCENE DATA BP 23 CH 1	16347
48	CH 2	16235	192	CH 2	16238
50	REFLECTOR POSITION 6	667	194	REFLECTOR POSITION 24	667
52	REFL POS 6 2ND LOOK	667	196	REFL POS 24 2ND LOOK	667
54	SCENE DATA BP 6 CH 1	16346	198	SCENE DATA BP 24 CH 1	16343
56	CH 2	16237	200	CH 2	16239
58	REFLECTOR POSITION 7	667	202	REFLECTOR POSITION 25	667
60	REFL POS 7 2ND LOOK	667	204	REFL POS 25 2ND LOOK	667
62	SCENE DATA BP 7 CH 1	16344	206	SCENE DATA BP 25 CH 1	16346
64	CH 2	16233	208	CH 2	16237
66	REFLECTOR POSITION 8	667	210	REFLECTOR POSITION 26	667
68	REFL POS 8 2ND LOOK	667	212	REFL POS 26 2ND LOOK	667
70	SCENE DATA BP 8 CH 1	16346	214	SCENE DATA BP 26 CH 1	16345
72	CH 2	16240	216	CH 2	16239
74	REFLECTOR POSITION 9	667	218	REFLECTOR POSITION 27	667
76	REFL POS 9 2ND LOOK	667	220	REFL POS 27 2ND LOOK	667
78	SCENE DATA BP 9 CH 1	16348	222	SCENE DATA BP 27 CH 1	16347
80	CH 2	16238	224	CH 2	16238
82	REFLECTOR POSITION 10	667	226	REFLECTOR POSITION 28	667
84	REFL POS 10 2ND LOOK	667	228	REFL POS 28 2ND LOOK	667
86	SCENE DATA BP 10 CH 1	16343	230	SCENE DATA BP 28 CH 1	16344
88	CH 2	16236	232	CH 2	16238
90	REFLECTOR POSITION 11	667	234	REFLECTOR POSITION 29	667
92	REFL POS 11 2ND LOOK	667	236	REFL POS 29 2ND LOOK	667

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16346	238	SCENE DATA BP 29 CH 1	16345
96	CH 2	16239	240	CH 2	16233
98	REFLECTOR POSITION 12	667	242	REFLECTOR POSITION 30	667
100	REFL POS 12 2ND LOOK	667	244	REFL POS 30 2ND LOOK	667
102	SCENE DATA BP 12 CH 1	16351	246	SCENE DATA BP 30 CH 1	16346
104	CH 2	16239	248	CH 2	16233
106	REFLECTOR POSITION 13	667	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	667	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16342	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16240	256	CH 2	0
114	REFLECTOR POSITION 14	667	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	667	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16343	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16233	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	667	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	667	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16346	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16239	312	CH 2	0
130	REFLECTOR POSITION 16	667			
132	REFL POS 16 2ND LOOK	667			
134	SCENE DATA BP 16 CH 1	16339			
136	CH 2	16231			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17612	22.81
264	FEED HORN	17953	22.93
266	RF MUX	18376	23.62
268	MIXER/IF AMPLIFIER CHANNEL 1	18488	23.86
270	MIXER/IF AMPLIFIER CHANNEL 2	18571	24.58
272	LOCAL OSCILLATOR CHANNEL 1	18233	24.19
274	LOCAL OSCILLATOR CHANNEL 2	18884	24.93
276	COMPENSATION MOTOR	17816	23.41
278	SUB REFLECTOR	17849	22.35
280	DC/DC CONVERTER	19742	27.09
282	RF SHELF	17870	23.48
284	DETECTOR/PREAMP ASSEMBLY	18318	23.68
286	WARM LOAD CENTER	22895	23.06
288	WARM LOAD 1	22994	23.32
290	WARM LOAD 2	22881	22.97
292	WARM LOAD 3	22762	23.09
294	WARM LOAD 4	22810	22.69
296	WARM LOAD 5	22928	23.04
298	WARM LOAD 6	23262	22.80
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	YES	YES	YES
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
COMPENSATOR MOTOR TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
SCANNER MOTOR TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
WARM LOAD TEMPERATURE	218	-273.1	218	-273.1	218	-273.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	18	0.00	16	0.00	14	0.00
COMPENSATOR MOTOR CURRENT (AVERAGE)	14	0.00	12	0.00	11	0.00
SIGNAL PROCESSING +15 VDC	173	0.00	173	0.00	173	0.00
ANTENNA DRIVE +15 VDC	173	0.00	173	0.00	173	0.00
SIGNAL PROCESSING -15 VDC	150	0.00	150	0.00	150	0.00
ANTENNA DRIVE -15 VDC	150	0.00	150	0.00	150	0.00
RECEIVER +8 VDC	174	0.00	174	0.00	174	0.00
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	0.00	149	0.00	149	0.00
ANTENNA DRIVE +5 VDC	149	0.00	149	0.00	149	0.00
GUNN DIODE OSC #1 (CHANNEL 1) VDC	176	0.00	176	0.00	176	0.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	0.00	175	0.00	175	0.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

TEST DATA SHEET 29
 Digital-A Data Output Nadir Mode Synch Sequence,
 Unit I.D./Serial Number and Digital-B Serial Data Verification
 Sections [I], [II], and [III] (Paragraph 3.2.4.3.4.4)

Step	Element (For Ref)	Description	Recorded Value	Required Value	Pass/Fail
[I]	0001	Sync Sequence Byte 1	255	255	P
	0002	Sync Sequence Byte 2	255	255	P
	0003	Sync Sequence Byte 3	255	255	P
[II]	0004	Unit I.D. and Serial N	18	*	P
[III]	0005	Digital B Data Byte 1	16	16	P
	0006	Digital B Data Byte 2	6	6	P
	0007	Digital B Data Byte 3	0	0	P
	0008	Digital B Data Byte 4	0	0	P

* AMSU A2 Identification Words (data entered in decimal system)			Binary	Decimal
AMSU-A2 S/N 101			00000010	2
AMSU-A2 S/N 102			00000110	6
AMSU-A2 S/N 103			00001010	10
AMSU-A2 S/N 104			00001110	14
AMSU-A2 S/N 105			00010010	18
AMSU-A2 S/N 106			00010110	22
AMSU-A2 S/N 107			00011010	26
AMSU-A2 S/N 108			00011110	30
AMSU-A2 S/N 109			00100010	34

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105

Q. Galacgpc 8-13-98
 Customer Representative Date
 (Flight Hardware Only)

8/11/98
 Test Systems Engineer 1833 Date
 Quality Control 62 Date

TEST DATA SHEET 30
Digital-A Data Output Nadir Mode Radiometer Data Section [V] (Paragraph 3.2.4.3.4.4)


BP	Channel-1 (23.8 GHz)				Channel-2 (31.4 GHz)			
	Element (For Ref)	Measured*	Required**	Pass/Fail	Element (For Ref)	Measured*	Required**	Pass/Fail
01	0014			P	0016			P
02	0022				0024			
03	0030				0032			
04	0038				0040			
05	0046				0048			
06	0054				0056			
07	0062				0064			
08	0070				0072			
09	0078				0080			
10	0086				0088			
11	0094				0096			
12	0102				0104			
13	0110				0112			
14	0118				0120			
15	0126				0128			
16	0134				0136			
17	0142				0144			
18	0150				0152			
19	0158				0160			
20	0166				0168			
21	0174				0176			
22	0182				0184			
23	0190				0192			
24	0198				0200			
25	0206				0208			
26	0214				0216			
27	0222				0224			
28	0230				0232			
29	0238				0240			
30	0246				0248			
CC	0258		0	✓	0260		0	✓
WL	0310		0	P	0312		0	P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.
 ** Required = 16,500 ± 4000 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105

J. Valenzuela 8-13-98
 Customer Representative Date
 (Flight Hardware Only)



Test System Engineer Date 8/11/98
 Quality Control ✓ Date AUG 13 '98

TEST DATA SHEET 31
Nadir Mode Temperature Sensors Section [VI] (Paragraph 3.2.4.3.4.4)

Thermistor Sensors		Recorded Value*	Required Value	Pass/Fail
Element	Description	(deg. C)	(deg. C)	
0262	Warm Load 1 <i>SCAN MOTOR</i>		25 ± 15	P
0264	Warm Load 2 <i>FEED HORN</i>		25 ± 15	
0266	Warm Load 3 <i>RF MUX</i>		25 ± 15	
0268	Warm Load 4 <i>MIXER/IF AMP CHANNEL 1</i>		25 ± 15	
0270	Warm Load 5 <i>MIXER/IF AMP CHANNEL 2</i>		25 ± 15	
0272	Warm Load 6 <i>LOCAL OSCILLATOR CHANNEL 1</i>		25 ± 15	
0274	Warm Load Center <i>LOCAL OSCILLATOR CHANNEL 2</i>		25 ± 15	
0276	Scan Motor <i>COMPENSATION MOTOR</i>		25 ± 15	
0278	Compensation Motor <i>SUBREFLECTOR</i>		25 ± 15	
0280	Feedhorn <i>DC/DC CONVERTER</i>		25 ± 15	
0282	RF Mux <i>RF SHELF</i>		25 ± 15	
0284	Mixer I.F. Amp. Channel 1 <i>DETECTOR/PREAMP</i>		25 ± 15	
0286	Mixer I.F. Amp. Channel 2 <i>WARM LOAD CENTER</i>		25 ± 15	
0288	Subreflector <i>WARM LOAD 1</i>		25 ± 15	
0290	DC/DC Converter <i>WARM LOAD 2</i>		25 ± 15	
0292	RF Shelf <i>WARM LOAD 3</i>		25 ± 15	
0294	Detector/Preamp Assembly <i>WARM LOAD 4</i>		25 ± 15	
0296	Local Oscillator Channel 1 <i>WARM LOAD 5</i>		25 ± 15	
0298	Local Oscillator Channel 2 <i>WARM LOAD 6</i>		25 ± 15	V
0300	Temp Sensor V. Reference		**	P

* Value is from the STE printout sheets. Copying data to this sheet is optional.

** Count of 24,552 +1765, -1308.

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

G. Kalaspek 8-13-98

Customer Representative
(Flight Hardware Only)

Date

AMSU
1
SEIT
8/11/98
Test Systems Engineer 8-13-98 Date
Quality Control Date

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AMSU A2-18 A2.EXE NADIR MODE 11-AUG-98 20:25:00 SCAN NUMBER 341
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = YES [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON 3

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4534
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4534
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16318
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16227
5	DIGITAL B DATA BYTE 1	00010000	146	REFLECTOR POSITION 18	4534
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4534
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16326
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16228
10	REFLECTOR POSITION 1	4534	154	REFLECTOR POSITION 19	4534
12	REFL POS 1 2ND LOOK	4534	156	REFL POS 19 2ND LOOK	4534
14	SCENE DATA BP 1 CH 1	16328	158	SCENE DATA BP 19 CH 1	16319
16	CH 2	16224	160	CH 2	16224
18	REFLECTOR POSITION 2	4534	162	REFLECTOR POSITION 20	4534
20	REFL POS 2 2ND LOOK	4534	164	REFL POS 20 2ND LOOK	4534
22	SCENE DATA BP 2 CH 1	16324	166	SCENE DATA BP 20 CH 1	16319
24	CH 2	16222	168	CH 2	16225
26	REFLECTOR POSITION 3	4534	170	REFLECTOR POSITION 21	4534
28	REFL POS 3 2ND LOOK	4534	172	REFL POS 21 2ND LOOK	4534
30	SCENE DATA BP 3 CH 1	16324	174	SCENE DATA BP 21 CH 1	16319
32	CH 2	16224	176	CH 2	16226
34	REFLECTOR POSITION 4	4534	178	REFLECTOR POSITION 22	4534
36	REFL POS 4 2ND LOOK	4534	180	REFL POS 22 2ND LOOK	4534
38	SCENE DATA BP 4 CH 1	16320	182	SCENE DATA BP 22 CH 1	16323
40	CH 2	16224	184	CH 2	16224
42	REFLECTOR POSITION 5	4534	186	REFLECTOR POSITION 23	4534
44	REFL POS 5 2ND LOOK	4534	188	REFL POS 23 2ND LOOK	4534
46	SCENE DATA BP 5 CH 1	16324	190	SCENE DATA BP 23 CH 1	16319
48	CH 2	16220	192	CH 2	16224
50	REFLECTOR POSITION 6	4534	194	REFLECTOR POSITION 24	4534
52	REFL POS 6 2ND LOOK	4534	196	REFL POS 24 2ND LOOK	4534
54	SCENE DATA BP 6 CH 1	16322	198	SCENE DATA BP 24 CH 1	16318
56	CH 2	16220	200	CH 2	16231
58	REFLECTOR POSITION 7	4534	202	REFLECTOR POSITION 25	4534
60	REFL POS 7 2ND LOOK	4534	204	REFL POS 25 2ND LOOK	4534
62	SCENE DATA BP 7 CH 1	16319	206	SCENE DATA BP 25 CH 1	16322
64	CH 2	16227	208	CH 2	16225
66	REFLECTOR POSITION 8	4534	210	REFLECTOR POSITION 26	4534
68	REFL POS 8 2ND LOOK	4534	212	REFL POS 26 2ND LOOK	4534
70	SCENE DATA BP 8 CH 1	16325	214	SCENE DATA BP 26 CH 1	16317
72	CH 2	16224	216	CH 2	16224
74	REFLECTOR POSITION 9	4534	218	REFLECTOR POSITION 27	4534
76	REFL POS 9 2ND LOOK	4534	220	REFL POS 27 2ND LOOK	4534
78	SCENE DATA BP 9 CH 1	16324	222	SCENE DATA BP 27 CH 1	16320
80	CH 2	16226	224	CH 2	16222
82	REFLECTOR POSITION 10	4534	226	REFLECTOR POSITION 28	4534
84	REFL POS 10 2ND LOOK	4534	228	REFL POS 28 2ND LOOK	4534
86	SCENE DATA BP 10 CH 1	16323	230	SCENE DATA BP 28 CH 1	16316
88	CH 2	16228	232	CH 2	16221
90	REFLECTOR POSITION 11	4534	234	REFLECTOR POSITION 29	4534
92	REFL POS 11 2ND LOOK	4534	236	REFL POS 29 2ND LOOK	4534

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16320	238	SCENE DATA BP 29 CH 1	16321
96	CH 2	16224	240	CH 2	16220
98	REFLECTOR POSITION 12	4534	242	REFLECTOR POSITION 30	4534
100	REFL POS 12 2ND LOOK	4534	244	REFL POS 30 2ND LOOK	4534
102	SCENE DATA BP 12 CH 1	16324	246	SCENE DATA BP 30 CH 1	16319
104	CH 2	16227	248	CH 2	16222
106	REFLECTOR POSITION 13	4534	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	4534	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16324	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16226	256	CH 2	0
114	REFLECTOR POSITION 14	4534	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	4534	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16318	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16224	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	4534	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16321	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16227	312	CH 2	0
130	REFLECTOR POSITION 16	4534			
132	REFL POS 16 2ND LOOK	4534			
134	SCENE DATA BP 16 CH 1	16322			
136	CH 2	16228			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17572	22.73
264	FEED HORN	17945	22.91
266	RF MUX	18426	23.71
268	MIXER/IF AMPLIFIER CHANNEL 1	18561	24.00
270	MIXER/IF AMPLIFIER CHANNEL 2	18635	24.71
272	LOCAL OSCILLATOR CHANNEL 1	18305	24.33
274	LOCAL OSCILLATOR CHANNEL 2	18968	25.09
276	COMPENSATION MOTOR	17738	23.26
278	SUB REFLECTOR	17749	22.16
280	DC/DC CONVERTER	19940	27.48
282	RF SHELF	17931	23.59
284	DETECTOR/PREAMP ASSEMBLY	18396	23.83
286	WARM LOAD CENTER	22903	23.07
288	WARM LOAD 1	22981	23.29
290	WARM LOAD 2	22874	22.96
292	WARM LOAD 3	22802	23.17
294	WARM LOAD 4	22860	22.78
296	WARM LOAD 5	22948	23.08
298	WARM LOAD 6	23282	22.84
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	YES	YES	YES
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
COMPENSATOR MOTOR TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
SCANNER MOTOR TEMPERATURE	218	-273.1	218	-273.1	218	-273.1
WARM LOAD TEMPERATURE	218	-273.1	218	-273.1	218	-273.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	5	0.00	4	0.00	4	0.00
COMPENSATOR MOTOR CURRENT (AVERAGE)	4	0.00	4	0.00	4	0.00
SIGNAL PROCESSING +15 VDC	173	0.00	173	0.00	173	0.00
ANTENNA DRIVE +15 VDC	173	0.00	173	0.00	173	0.00
SIGNAL PROCESSING -15 VDC	150	0.00	150	0.00	150	0.00
ANTENNA DRIVE -15 VDC	151	0.00	151	0.00	151	0.00
RECEIVER +8 VDC	174	0.00	174	0.00	174	0.00
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	0.00	149	0.00	149	0.00
ANTENNA DRIVE +5 VDC	149	0.00	149	0.00	149	0.00
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	0.00	175	0.00	175	0.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	0.00	175	0.00	175	0.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00








THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00


TEST DATA SHEET 32
Analog Telemetry Verification by Way of Connector J6 (Paragraph 3.2.4.3.5.1)

From	Description	To	Measured (volts)	Required (volts)	Pass/Fail
J6-02	RF Shelf A2 Temp.	J1-10	<u>4.35</u>	3.5V ± 2V	<u>P</u>
J6-03	Comp. Motor Temp.	J1-10	<u>4.35</u>	3.5V ± 2V	<u>P</u>
J6-04	Warm Load A2 Temp.	J1-10	<u>4.33</u>	3.5V ± 2V	<u>P</u>
J6-22	A2 Scan Motor Temp.	J1-10	<u>4.34</u>	3.5V ± 2V	<u>P</u>
J6-08	SCAN Drive Motor Curr.	J2-03	<u>2.1</u>	<u>2.0</u> 4.0V ± 1.0V	<u>P</u>
J6-09	 +15V Antenna Drive	J2-03	<u>3.49</u>	<u>3.5V</u> 5.0V ± 0.5V	<u>P</u>
J6-10	 +5V Antenna Drive	J2-03	<u>2.99</u>	3.0V ± 0.5V	<u>P</u>
J6-11	 +15V Signal Processing	J2-03	<u>3.46</u>	<u>3.5V</u> 5.0V ± 0.25V	<u>P</u>
J6-12	+5V Signal Processing	J2-03	<u>2.98</u>	3.0V ± 0.25V	<u>P</u>
J6-13	L.O. Voltage Channel 1	J2-03	<u>3.50</u>	<u>3.5V</u> 4.0V ± 0.5V	<u>P</u>
J6-27	 Comp Scan Motor Current	J2-03	<u>2.0</u>	<u>2.0</u> 4.0V ± 1.0V	<u>P</u>
J6-28	 -15V Antenna Drive	J2-03	<u>3.08</u>	3.0V ± 0.5V	<u>P</u>
J6-29	 -15V Signal Processing	J2-03	<u>3.01</u>	3.0V ± 0.25V	<u>P</u>
J6-30	 L.O. Voltage Channel 2	J2-03	<u>3.50</u>	<u>3.5V</u> 4.0V ± 0.5V	<u>P</u>
J6-34	Mixer/IF Voltage	J2-03	<u>3.48</u>	<u>3.5V</u> 4.5V ± 0.5V	<u>P</u>

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484/13 S/N: 105


U. Halasz 8-13-98
Customer Representative Date
(Flight Hardware Only)

8/13/98
Test Systems Engineer Date
2-13-98
Quality Control Date

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S/13198
B
AE-26156/4C
23 Jun 98

TEST DATA SHEET 33
Analog Telemetry Signals by Way of the STE (Paragraph 3.2.4.3.5.1)

Description	*	Measured (Deg. C)	Required (Deg. C)	Pass/Fail
A2 Scanner Motor	Temp	_____	25 ± 15	<u>P</u>
A2 RF Shelf A2 Temp.	Temp	_____	25 ± 15	<u>P</u>
A2 Warm Load	Temp	_____	25 ± 15	<u>P</u>
A2 Compensator Motor	Temp	_____	25 ± 15	<u>P</u>
		(mAmps)	(mAmps)	
Ant A2 Drv Motor Current		_____	150 mA max	<u>P</u>
Ant A2 Comp. Motor Current		_____	150 mA max	<u>P</u>
		(Volts)	(Volts)	
Signal Processor	+15V	_____	15.0V ± 0.75V	<u>P</u>
Antenna Drive	+15V	_____	15.0V ± 1.5V	<u>P</u>
Signal Processor	-15V	_____	-15.0V ± 0.75V	<u>P</u>
Antenna Drive	-15V	_____	-15.0V ± 1.5V	<u>P</u>
Mixer/IF	***	_____	*** <u>10</u> ± 0.5V	<u>P</u>
Signal Processor	+5V	_____	5.0V ± 0.5V	<u>P</u>
Antenna Drive	+5V	_____	5.0V ± 0.6V	<u>P</u>
L.O. #1	**	_____	** <u>10</u> ± 0.5V	<u>P</u>
L.O. #2	**	_____	** <u>10</u> ± 0.5V	<u>P</u>

- * Data from the printout sheet Page 8. Rewriting data on this space is optional.
** L.O. voltages from manufacturer data sheet for S/N 101 - S/N 104, +10V for S/N 105 - S/N 109.
*** Mixer/IF voltage: +8V for S/N 101 - S/N 104, +10V for S/N 105 - S/N 109.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105



G. Gallegos 8-13-98
Customer Representative Date
(Flight Hardware Only)

8/13/98
Test Systems Engineer Date
Quality Control 8-13-98 Date

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SUPPORT DATA FOR TDS 33

1st CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 18:47:33 SCAN NUMBER 1465
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

ANALOG DATA

1 RF SHELF	218	23.45	DEG C	9 SIGNAL PROCESSING	-15VDC	-15.02
2 COMPENSATOR MOTOR	218	23.45	DEG C	10 ANTENNA DRIVE	-15VDC	-15.10
3 SCANNER MOTOR	218	23.45	DEG C	11 RECEIVER	+8 VDC	9.52
4 WARM LOAD	218	23.45	DEG C	12 RAD/RECEIVER/SIG PROC	+5 VDC	5.00
5 ANTENNA DRIVE MOTOR CURRENT		59.51		13 ANTENNA DRIVE	+5 VDC	5.22
6 COMPENSATOR MOTOR CURRENT		58.42		14 GUNN DIODE OSC #1 CH 1	VDC	10.00
7 SIGNAL PROCESSING	+15VDC	15.00		15 GUNN DIODE OSC #2 CH 2	VDC	10.00
8 ANTENNA DRIVE	+15VDC	15.47				

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 2

TEST DATA SHEET 34
Integrate/Hold and Dump Signal Verification (Paragraph 3.2.4.3.6.1)

ATTACH PHOTOGRAPH OR PLOT HERE

Parameter	Measured	Required	Pass/ Fail
Scope Channel-1: Integration/Hold			
Time (A)*	158 ms	158 ms \pm 10%	P
Time (B)*	44.5 ms	42 ms \pm 10%	P
Amplitude	5 V	5.0 V \pm 0.2V	P
Scope Channel-2: Dump Signal			
Time (D)*	12.5 ms	9 ms to 15 ms	P
Amplitude	5V ms	5.0 V \pm 0.2V	P

* Refer to Figure 2 for waveform configuration.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113

S/N: 105

J. S. [Signature]
Customer Representative
(Flight Hardware Only)

8-14-98
Date

Test Systems Engineer

8/13/98
Date

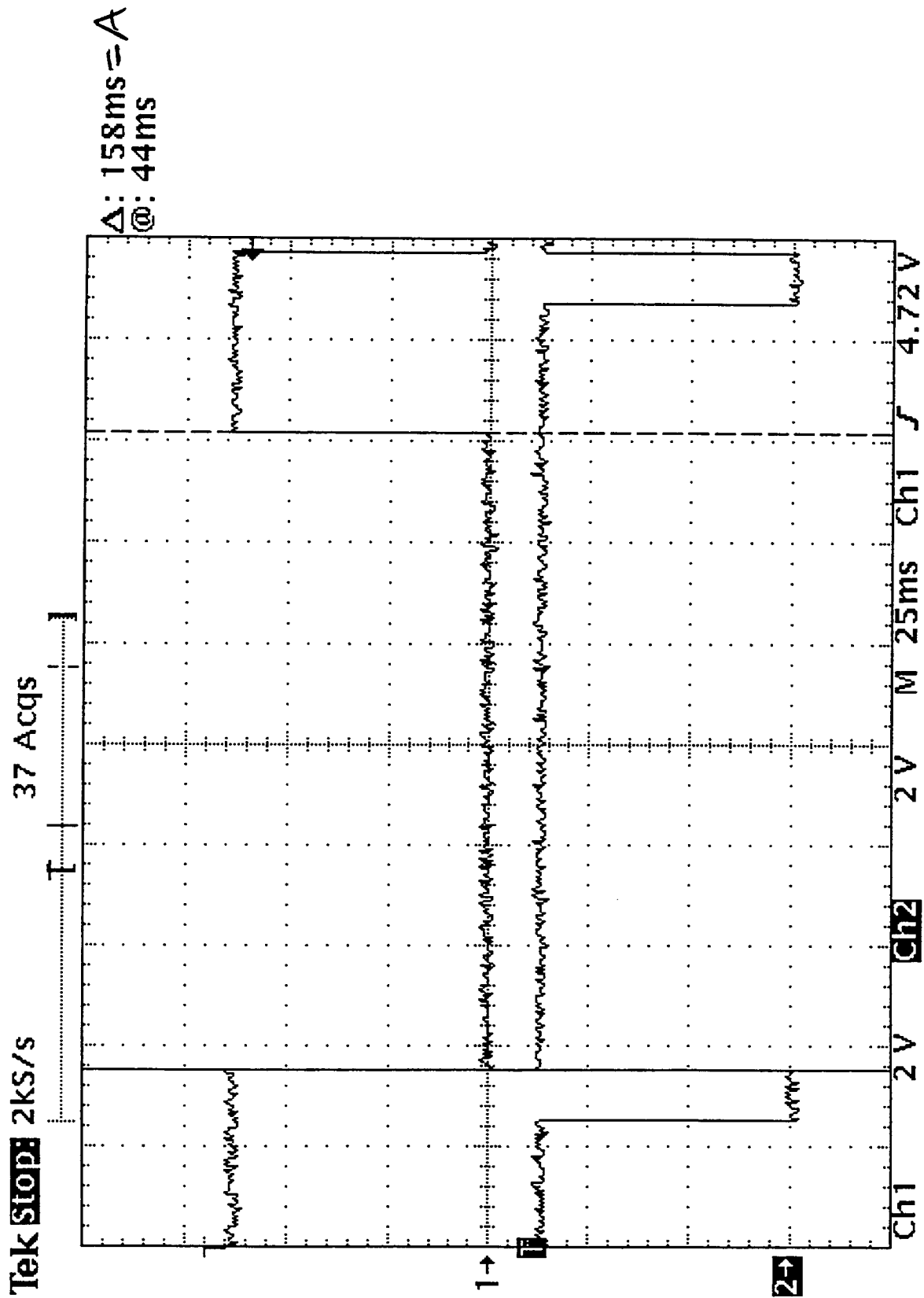
Quality Control

Date

Test Support Data for TDS 34

1st CPT

S/0484



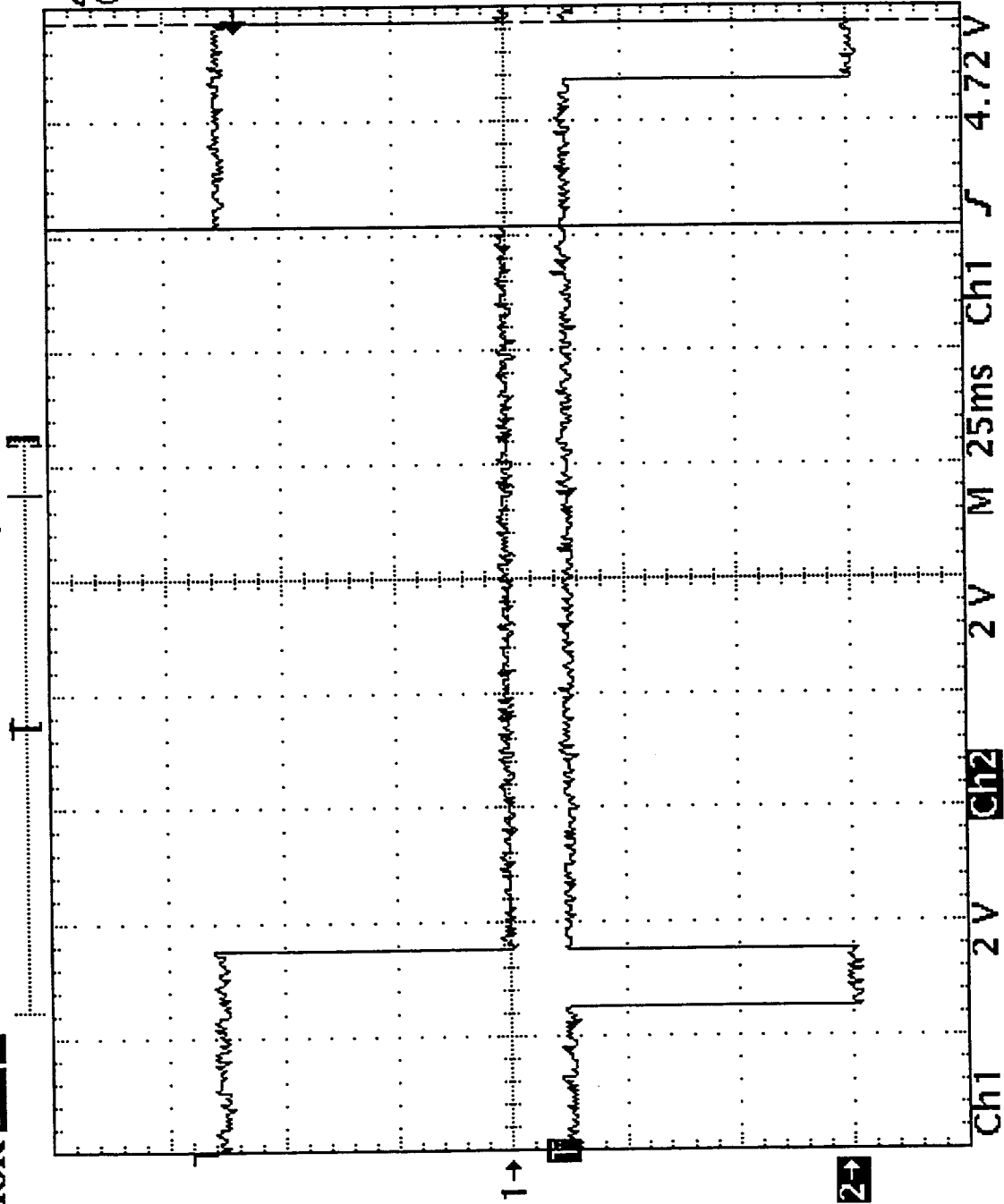
13 Aug 1998
23:13:55

Test Support Data for TDS 34

1st CPT S/O 484113

Tek Stop: 2ks/s

37 Acqs

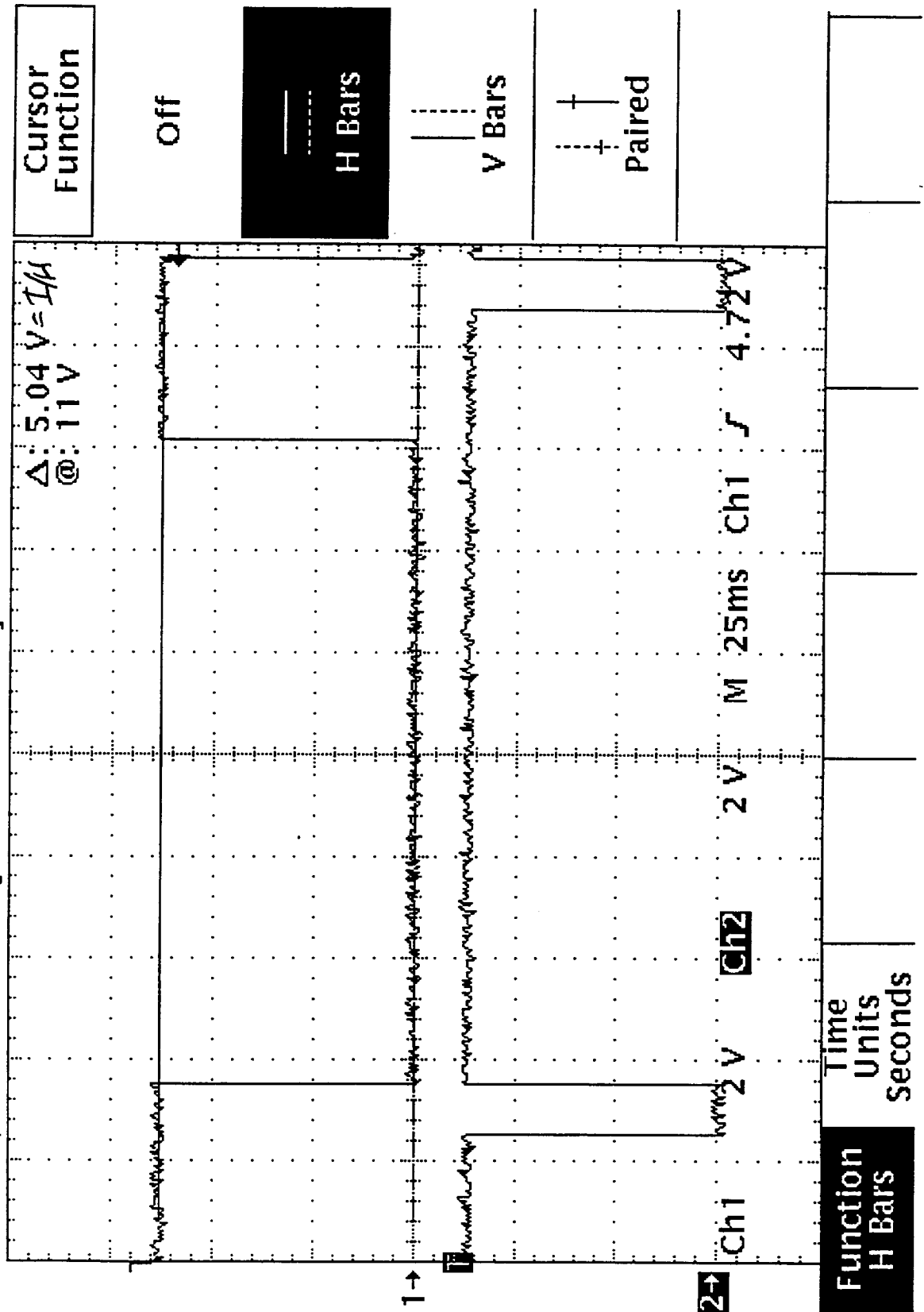


$\Delta: 44.5\text{ms} = \beta$
 $@: 202\text{ms}$

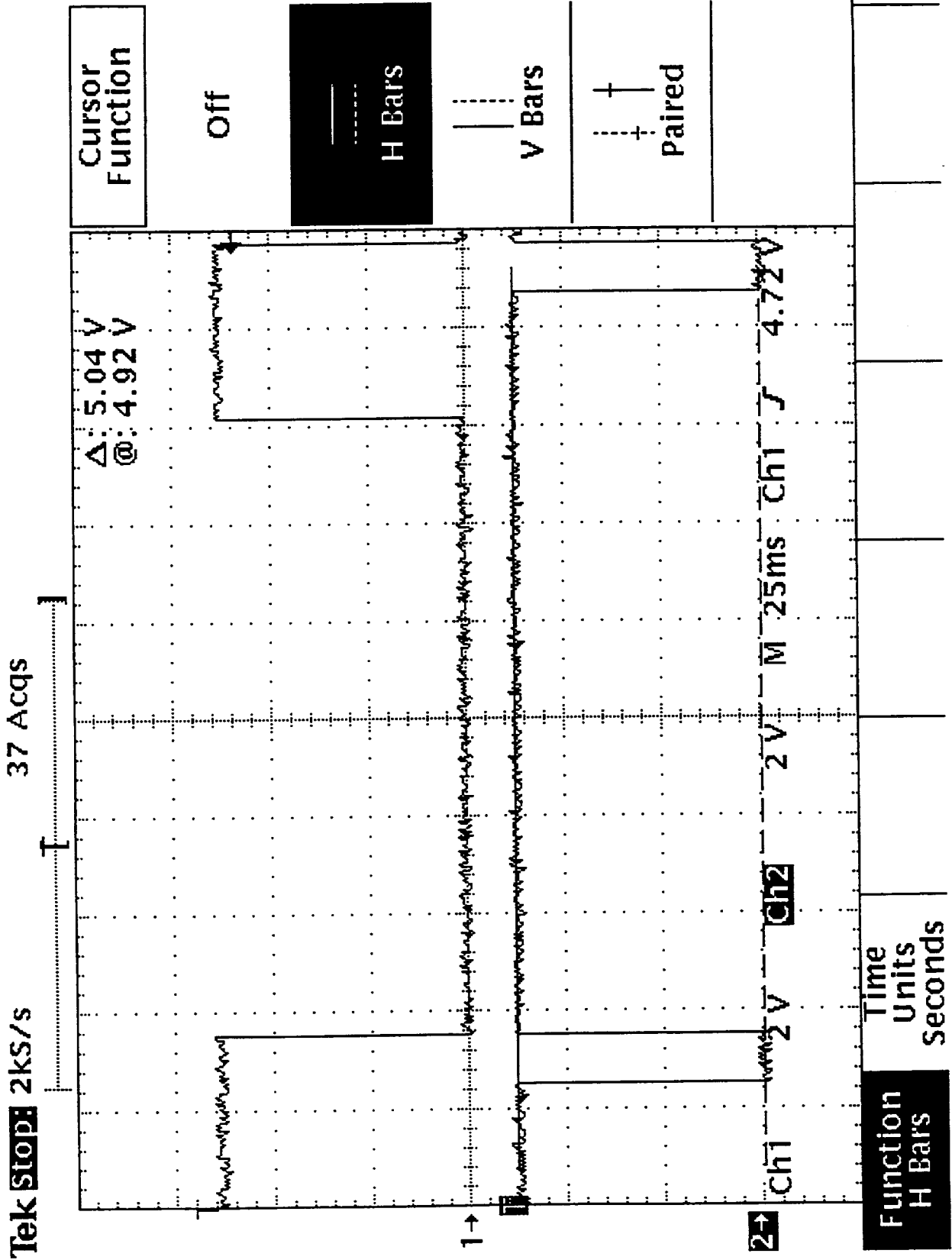
13 Aug 1998
23:15:37

Tek stop: 2kS/s

37 Acqs

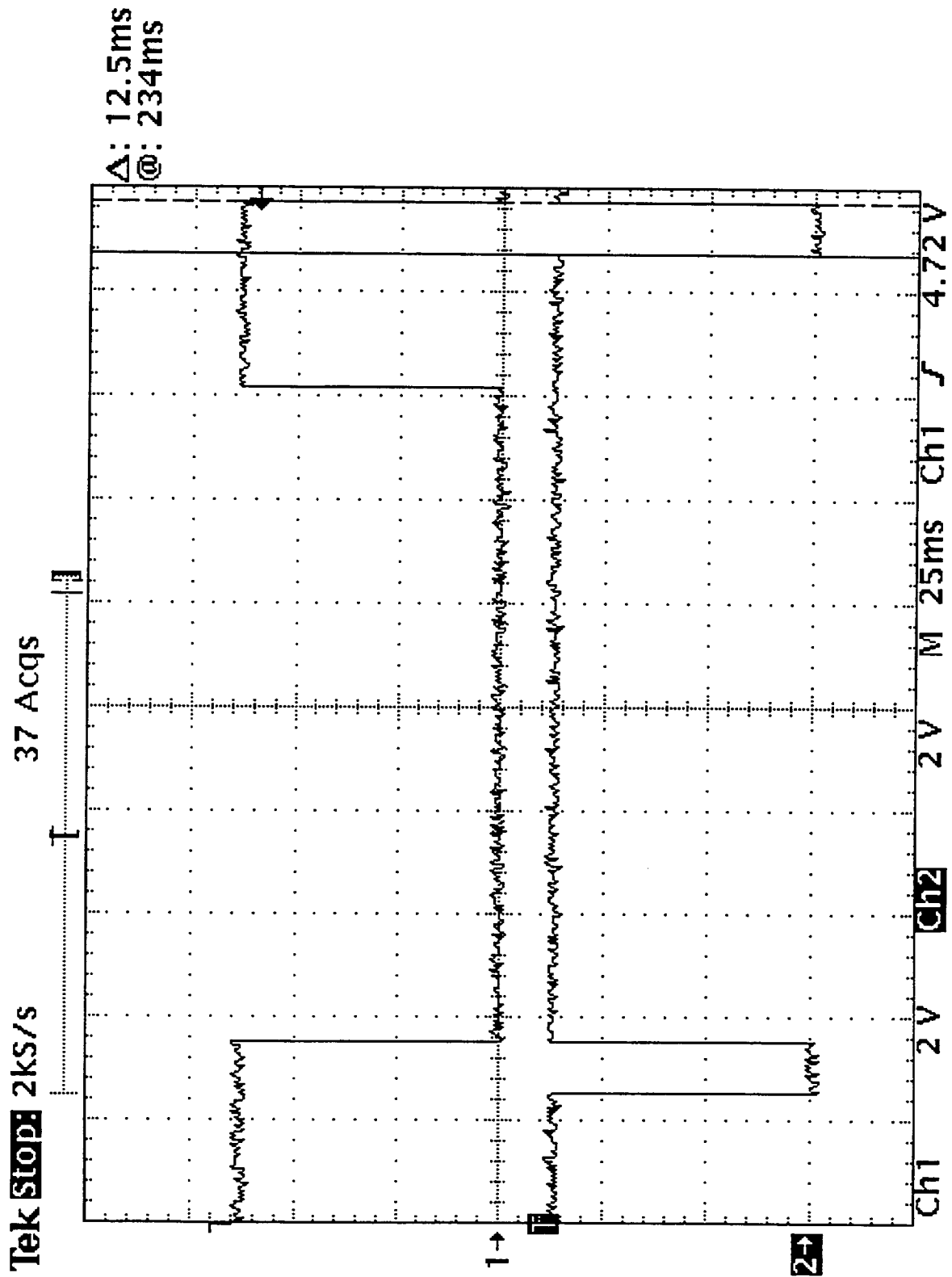


Test Support Data for TDS 34 1st CPT 8/0 484113



Test Support Data for TDS 34 1st CPT S/O 48411

13 Aug 1998
23:18:18



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TEST DATA SHEET 35
Integration Time (Analog Output) Verification (Paragraph 3.2.4.3.6.2)

ATTACH PHOTOGRAPH OR PLOT HERE

J7 - pin 8 signal
Frequency: 23.8 GHz

INTEGRATION (X) *
Measured 158 ms
Required 158 ms \pm 10%
Pass/Fail P

HOLD (B-D) **
Measured 32 ms
Required 32 ms \pm 10%
Pass/Fail P

DUMP (D) *
Measured 12.5 ms
Required 9 ms to 15 ms
Pass/Fail 12.5m P AMSU 1 SETT 8/13/98

ATTACH PHOTOGRAPH OR PLOT HERE

J7 - pin 9 signal
Frequency: 31.4 GHz

INTEGRATION (X) *
Measured 158 ms
Required 158 ms \pm 10%
Pass/Fail P

HOLD (B-D) **
Measured 32.5 ms
Required 32 ms \pm 10%
Pass/Fail P

DUMP (D) *
Measured 12 ms
Required 9 ms to 15 ms
Pass/Fail P

* Refer to Figure 2 for waveform configuration.
** Refer to Data Sheet 34 and Figure 2.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113 S/N: 105

J. Longford 8-14-98
Customer Representative Date
(Flight Hardware Only)

AMSU 1 SETT
Test System Engineer Date
268 AUG 14 '98
Quality Control Date

—

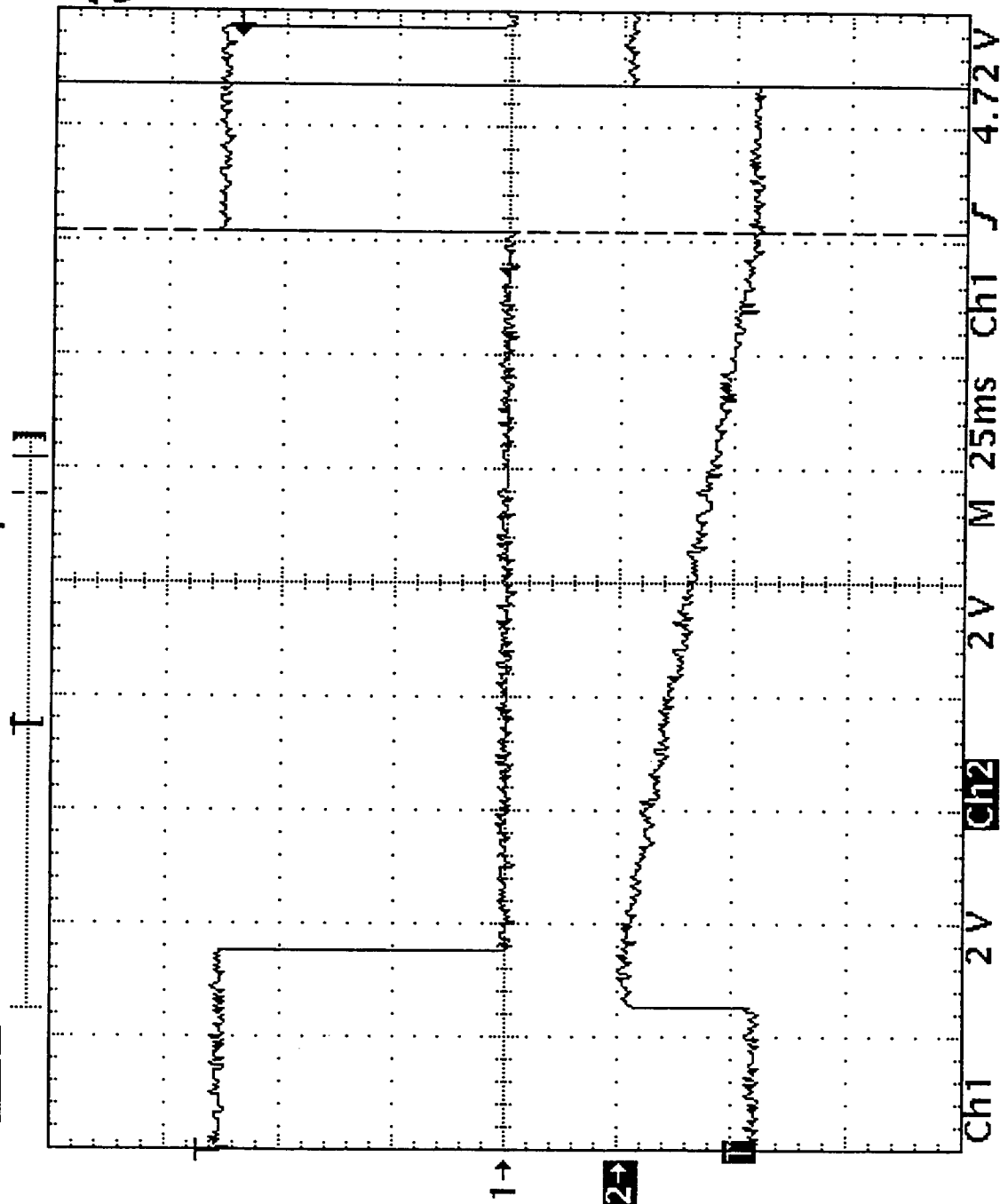
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CHANNEL 1

Tek Stop: 2ks/s

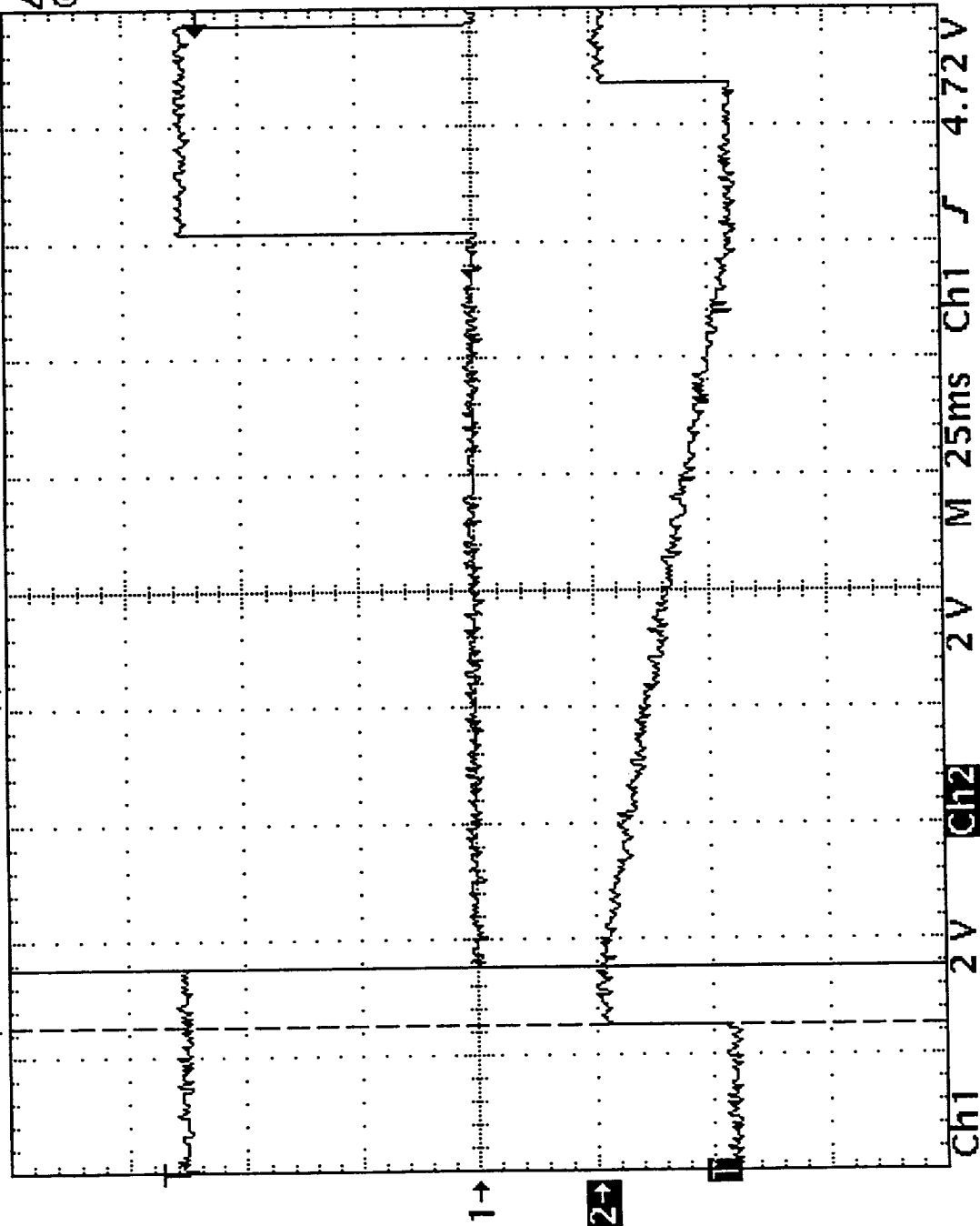
19 Acqs

 $\Delta: 32\text{ms} = B-D$
@: 234ms13 Aug 1998
23:25:00

CHANNEL 1

Tek Stop: 2ks/s

19 Acqs



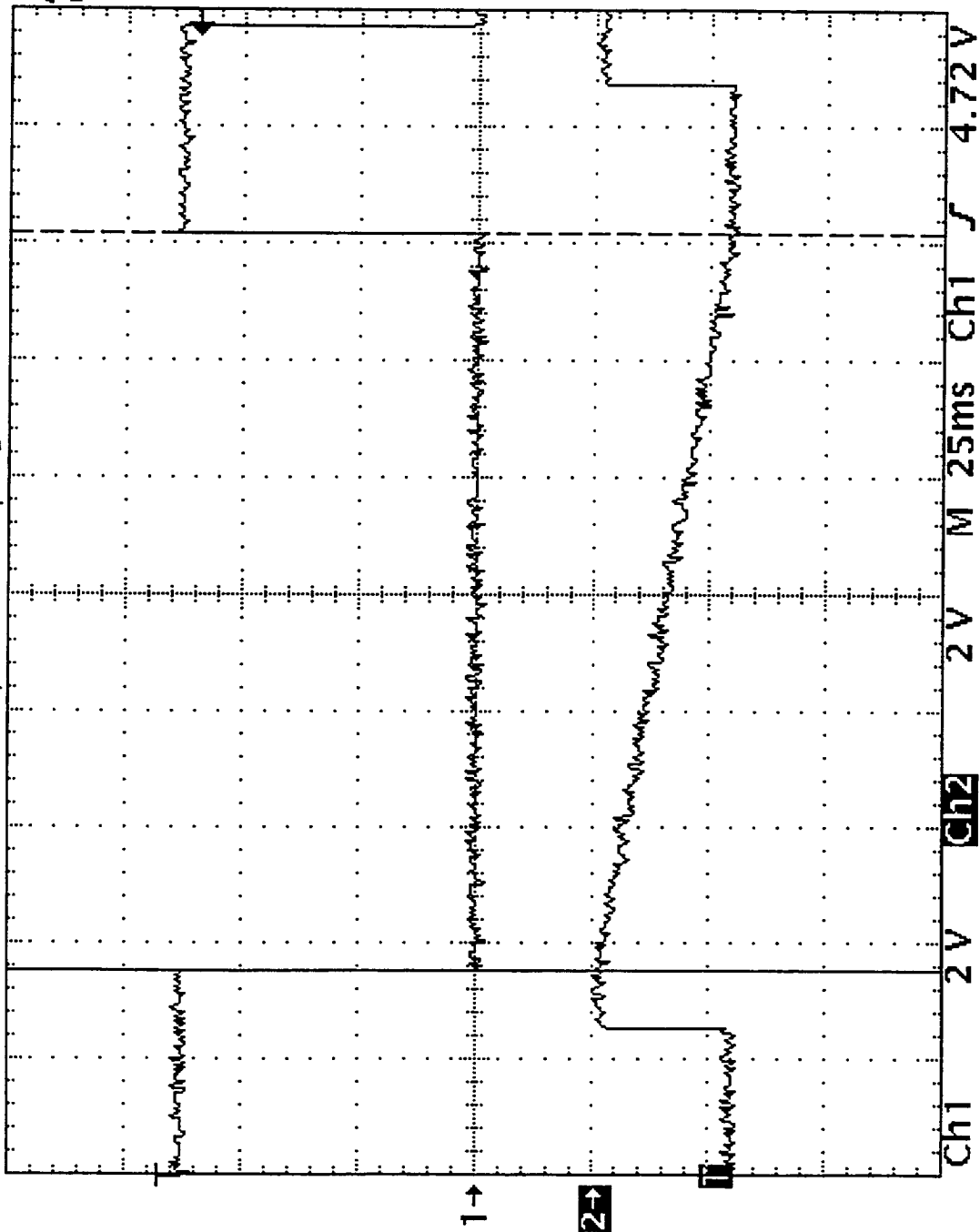
Δ : 12.5ms D
@: 44ms

13 Aug 1998
23:23:45

CHANNEL 1

Tek Stop 2ks/s

19 Acqs



Δ : 158ms
@: 44ms

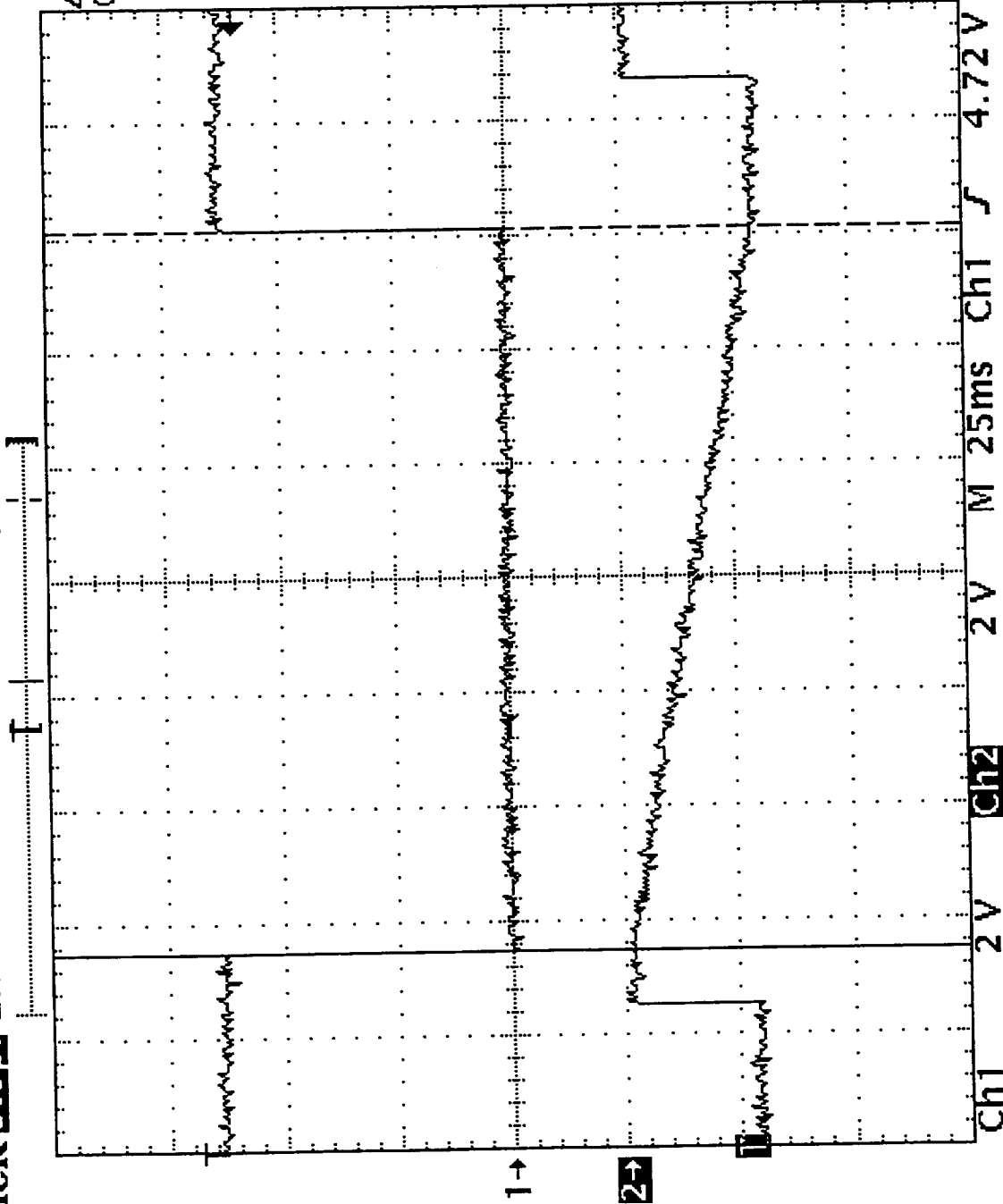
13 Aug 1998
23:24:21

Support Data for TDS 35 1st CPT S/O 484113

CHANNEL 2

Tek Stop 2ks/s

9 Acqs



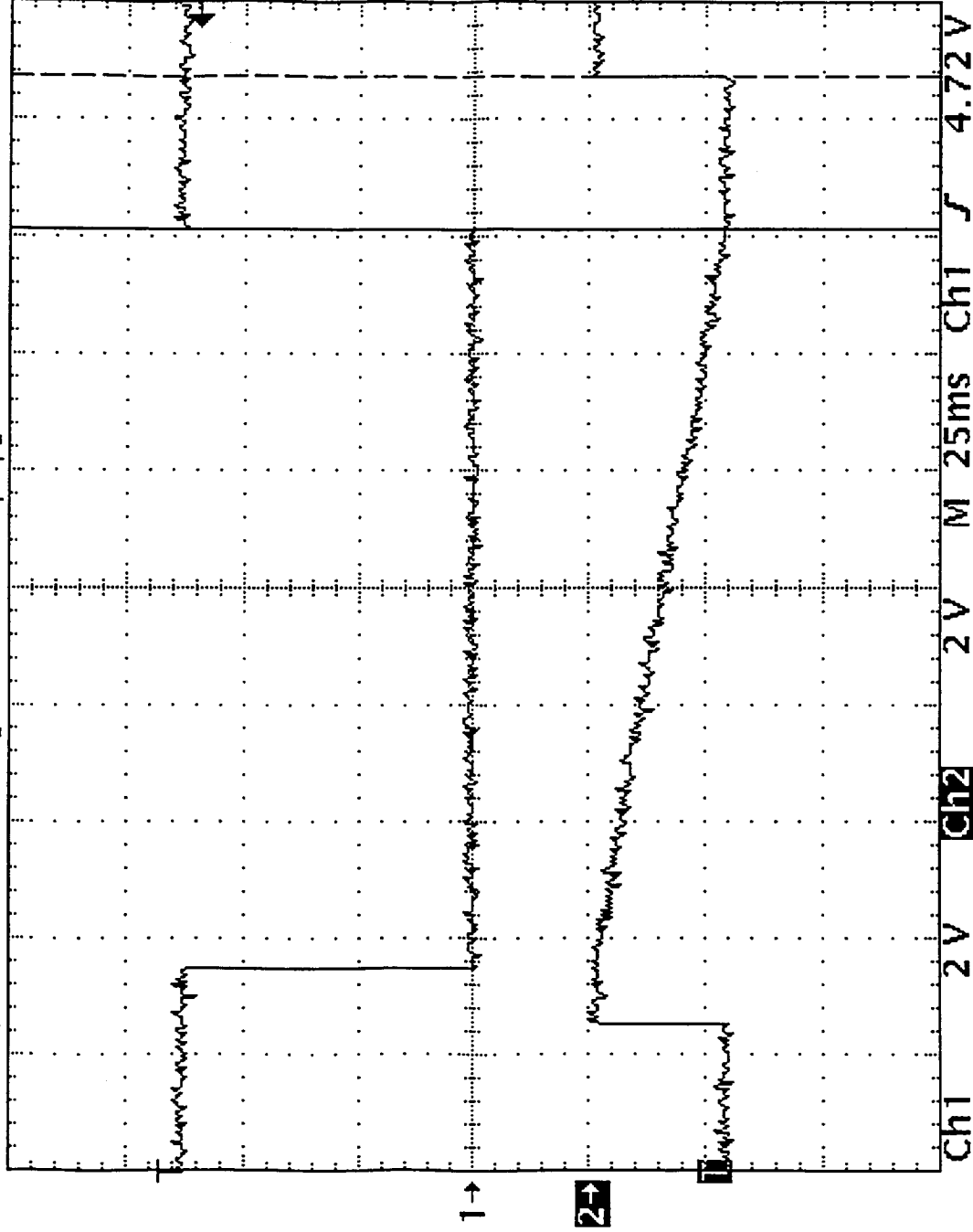
13 Aug 1998
23:28:03

CHANNEL 2

Tek Stop 2ks/s

9 Acqs

T



$\Delta: 32.5\text{ms} = \beta - \Delta$
@: 201.5ms

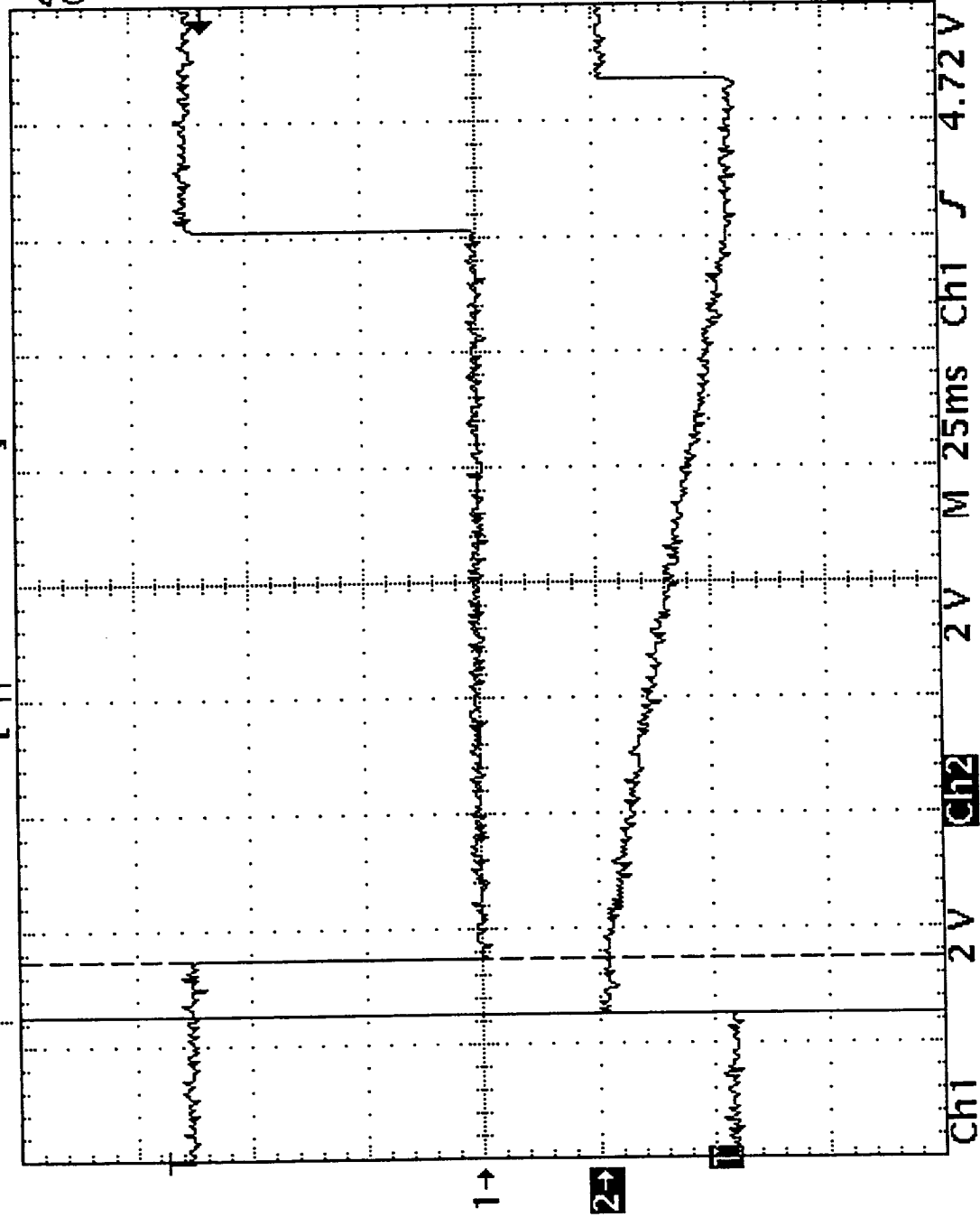
13 Aug 1998
23:27:34

CHANNEL 2

Tek stop: 2kS/s

9 Acqs

Δ : 12ms
@: 31.5ms



13 Aug 1998
23:28:58

TEST DATA SHEET 36
Digital-A/GSE Mode-1 Synch Sequence,
Unit I.D./Serial Number and Digital-B Serial Data Verification
Sections [I], [II], and [III] (Paragraph 3.2.4.3.7.2)

Step	Element (For Ref)	Description	Recorded Value	Required Value	Pass/Fail
[I]	0001	Sync Sequence Byte 1	255	255	P
	0002	Sync Sequence Byte 2	255	255	P
	0003	Sync Sequence Byte 3	255	255	P
[II]	0004	Unit I.D. and Serial N	18	*	P
[III]	0005	Digital B Data Byte 1	0	0	P
	0006	Digital B Data Byte 2	6	6	P
	0007	Digital B Data Byte 3	0	0	P
	0008	Digital B Data Byte 4	0	0	P

* AMSU A2 Identification Words (data entered in decimal system)	Binary	Decimal
AMSU-A2 S/N 101	00000010	2
AMSU-A2 S/N 102	00000110	6
AMSU-A2 S/N 103	00001010	10
AMSU-A2 S/N 104	00001110	14
AMSU-A2 S/N 105	00010010	18
AMSU-A2 S/N 106	00010110	22
AMSU-A2 S/N 107	00011010	26
AMSU-A2 S/N 108	00011110	30
AMSU-A2 S/N 109	00100010	34

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484113

S/N: 165



8/13/98

Test Systems Engineer

AUG 14 '98 Date

Quality Control

Date

—

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—

TEST DATA SHEET 37 (Sheet 1 of 2)
 Digital A/GSE Modes-1-4 Reflector Position Section [IV] (Paragraphs 3.2.4.3.7.2 - 3.2.4.3.7.5)

3.2.4.3.7.2 Digital A/GSE Mode-1 Reflector Position Section [IV]

BP	Reflector			
	Note	Position*	Required**	Pass/Fail
06	1st 10 data		5898	P
WL	2nd 10 data		12650	P
CL	3rd 10 data		665	P

3.2.4.3.7.3 Digital A/GSE Mode-2 Reflector Position Section [IV]

BP	Reflector		
	Position*	Required**	Pass/Fail
01		6657	P

3.2.4.3.7.4 Digital A/GSE Mode-3 Reflector Position Section [IV]

BP	Reflector		
	Position*	Required**	Pass/Fail
02		5140	P



8/13/98 ***

3.2.4.3.7.5 Digital A/GSE Mode-4 Reflector Position Section [IV]

BP	Reflector		
	Position*	Required**	Pass/Fail
30		2258	P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.

** Required position from TDS 6 of AE-26002/2 ± 5 counts.

*** CURRENT POSITION

AMSU 1 SET
 8/13/98

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105

J. L. [Signature]
 Customer Representative
 (Flight Hardware Only)
 Date: 8-14-98

AMSU 1 SET
 8/13/98
 Test Systems Engineer
 Quality Control
 Date: 8/14/98

TEST DATA SHEET 37 (Sheet 2 of 2)
Digital A/GSE Modes-1-4 Reflector Position Section [IV] (Paragraphs 3.2.4.3.7.2 - 3.2.4.3.7.5)

3.2.4.3.7.6 Digital A/GSE Mode-5 Reflector Position Section [IV]

BP	Reflector		
	Position*	Required**	Pass/Fail
06		5898	P

3.2.4.3.7.7 Digital A/GSE Mode-7 Reflector Position Section [IV]


BP	Reflector		
	Position*	Required**	Pass/Fail
06		5898	P

- * Actual counts from computer printout. Rewriting counts on this data sheet is optional.
 ** Required position from TDS 6 of AE-26002/2 ± 5 counts.

METSAT/AMSU A2 System CPT P/N IS-1331200
 Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 S/N: 105

J. Sanford 4-14-98
 Customer Representative Date
 (Flight Hardware Only)



8/13/98
 Test Systems Engineer Date
268
 Quality Control Date

SUPPORT DATA FOR TDS 37 1ST CPT S/O 484113

AMSU A2-18 A2.EXE GSE MODE 2 BP 1 13-AUG-98 19:06:03 SCAN NUMBER 2
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO
 4 36 RESOLVER ERROR FLAG SET
 POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON 3

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	6657
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	6657
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16282
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16172
5	DIGITAL B DATA BYTE 1	00000000	146	REFLECTOR POSITION 18	6657
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	6657
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16277
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16167
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	6657
12	REFL POS 1 2ND LOOK	6657	156	REFL POS 19 2ND LOOK	6657
14	SCENE DATA BP 1 CH 1	16282	158	SCENE DATA BP 19 CH 1	16276
16	CH 2	16167	160	CH 2	16169
18	REFLECTOR POSITION 2	6657	162	REFLECTOR POSITION 20	6657
20	REFL POS 2 2ND LOOK	6657	164	REFL POS 20 2ND LOOK	6657
22	SCENE DATA BP 2 CH 1	16278	166	SCENE DATA BP 20 CH 1	16279
24	CH 2	16167	168	CH 2	16168
26	REFLECTOR POSITION 3	6657	170	REFLECTOR POSITION 21	6657
28	REFL POS 3 2ND LOOK	6657	172	REFL POS 21 2ND LOOK	6657
30	SCENE DATA BP 3 CH 1	16279	174	SCENE DATA BP 21 CH 1	16278
32	CH 2	16169	176	CH 2	16165
34	REFLECTOR POSITION 4	6657	178	REFLECTOR POSITION 22	6657
36	REFL POS 4 2ND LOOK	6657	180	REFL POS 22 2ND LOOK	6657
38	SCENE DATA BP 4 CH 1	16280	182	SCENE DATA BP 22 CH 1	16282
40	CH 2	16171	184	CH 2	16171
42	REFLECTOR POSITION 5	6657	186	REFLECTOR POSITION 23	6657
44	REFL POS 5 2ND LOOK	6657	188	REFL POS 23 2ND LOOK	6657
46	SCENE DATA BP 5 CH 1	16277	190	SCENE DATA BP 23 CH 1	16280
48	CH 2	16167	192	CH 2	16166
50	REFLECTOR POSITION 6	6657	194	REFLECTOR POSITION 24	6657
52	REFL POS 6 2ND LOOK	6657	196	REFL POS 24 2ND LOOK	6657
54	SCENE DATA BP 6 CH 1	16276	198	SCENE DATA BP 24 CH 1	16279
56	CH 2	16170	200	CH 2	16168
58	REFLECTOR POSITION 7	6657	202	REFLECTOR POSITION 25	6657
60	REFL POS 7 2ND LOOK	6657	204	REFL POS 25 2ND LOOK	6657
62	SCENE DATA BP 7 CH 1	16282	206	SCENE DATA BP 25 CH 1	16280
64	CH 2	16170	208	CH 2	16169
66	REFLECTOR POSITION 8	6657	210	REFLECTOR POSITION 26	6657
68	REFL POS 8 2ND LOOK	6657	212	REFL POS 26 2ND LOOK	6657
70	SCENE DATA BP 8 CH 1	16281	214	SCENE DATA BP 26 CH 1	16274
72	CH 2	16171	216	CH 2	16165
74	REFLECTOR POSITION 9	6657	218	REFLECTOR POSITION 27	6657
76	REFL POS 9 2ND LOOK	6657	220	REFL POS 27 2ND LOOK	6657
78	SCENE DATA BP 9 CH 1	16277	222	SCENE DATA BP 27 CH 1	16279
80	CH 2	16169	224	CH 2	16172
82	REFLECTOR POSITION 10	6657	226	REFLECTOR POSITION 28	6657
84	REFL POS 10 2ND LOOK	6657	228	REFL POS 28 2ND LOOK	6657
86	SCENE DATA BP 10 CH 1	16280	230	SCENE DATA BP 28 CH 1	16282
88	CH 2	16165	232	CH 2	16164
90	REFLECTOR POSITION 11	6657	234	REFLECTOR POSITION 29	6657
92	REFL POS 11 2ND LOOK	6657	236	REFL POS 29 2ND LOOK	6657

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16280	238	SCENE DATA BP 29 CH 1	16279
96	CH 2	16171	240	CH 2	16171
98	REFLECTOR POSITION 12	6657	242	REFLECTOR POSITION 30	6657
100	REFL POS 12 2ND LOOK	6657	244	REFL POS 30 2ND LOOK	6657
102	SCENE DATA BP 12 CH 1	16278	246	SCENE DATA BP 30 CH 1	16279
104	CH 2	16169	248	CH 2	16166
106	REFLECTOR POSITION 13	6657	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	6657	252	REFL COLD CAL 2ND LOOK	
110	SCENE DATA BP 13 CH 1	16279	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16168	256	CH 2	0
114	REFLECTOR POSITION 14	6657	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	6657	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16281	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16171	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	6657	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	6657	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16278	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16170	312	CH 2	0
130	REFLECTOR POSITION 16	6657			
132	REFL POS 16 2ND LOOK	6657			
134	SCENE DATA BP 16 CH 1	16279			
136	CH 2	16170			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17655	22.89
264	FEED HORN	18152	23.31
266	RF MUX	18571	23.99
268	MIXER/IF AMPLIFIER CHANNEL 1	18680	24.23
270	MIXER/IF AMPLIFIER CHANNEL 2	18770	24.96
272	LOCAL OSCILLATOR CHANNEL 1	18422	24.56
274	LOCAL OSCILLATOR CHANNEL 2	19079	25.31
276	COMPENSATION MOTOR	17885	23.54
278	SUB REFLECTOR	18012	22.66
280	DC/DC CONVERTER	19791	27.19
282	RF SHELF	18082	23.88
284	DETECTOR/PREAMP ASSEMBLY	18528	24.08
286	WARM LOAD CENTER	22968	23.20
288	WARM LOAD 1	23048	23.43
290	WARM LOAD 2	22926	23.06
292	WARM LOAD 3	22843	23.25
294	WARM LOAD 4	22920	22.90
296	WARM LOAD 5	23008	23.20
298	WARM LOAD 6	23330	22.94
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	9	4.91	8	4.37	7	3.82
COMPENSATOR MOTOR CURRENT (AVERAGE)	8	4.37	7	3.82	7	3.82
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

VARIABLE TARGET

NO.	DEG K	NO.	DEG K
601	14.00	607	20.00
602	15.00	608	21.00
603	16.00	609	22.00
604	17.00	610	23.00
605	18.00	611	24.00

FIXED TARGET

606	19.00	618	45.00
612	39.00	619	46.00
613	40.00	620	47.00
614	41.00	621	48.00
615	42.00	622	49.00
616	43.00		
617	44.00		

BASEPLATE

623	25.00	625	50.00
624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

FIXED TARGET SHROUD

NO.	DEG K	NO.	DEG K
532	32.00	533	33.00

VARIABLE TARGET SHROUD

515	7.00	516	8.00
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FIXED TARGET N2

502	30.00	503	31.00
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VARIABLE TARGET N2

507	5.00	508	6.00
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HEATER N2

505	1.00	506	2.00
-----	------	-----	------

FIXED TARGET FLOW METER

504	34.00		
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VARIABLE TARGET FLOW METER

509	9.00		
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BASEPLATE HEATER N2

510	3.00	511	4.00
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BASEPLATE N2

512	36.00	513	37.00
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BASEPLATE FLOW METER

514	35.00		
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ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS 37

1st CPT

S/O 484113

AMSU A2-18 A2.EXE GSE MODE 3 13-AUG-98 19:11:32 SCAN NUMBER 14
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO
4 76 RESOLVER ERROR FLAG SET
POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	5141
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	5141
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16280
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16160
5	DIGITAL B DATA BYTE 1	00000000	146	REFLECTOR POSITION 18	5141
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	5141
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16276
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16160
10	REFLECTOR POSITION 1	5141	154	REFLECTOR POSITION 19	5141
12	REFL POS 1 2ND LOOK	5141	156	REFL POS 19 2ND LOOK	5141
14	SCENE DATA BP 1 CH 1	16280	158	SCENE DATA BP 19 CH 1	16281
16	CH 2	16162	160	CH 2	16155
18	REFLECTOR POSITION 2	5141	162	REFLECTOR POSITION 20	5141
20	REFL POS 2 2ND LOOK	5141	164	REFL POS 20 2ND LOOK	5141
22	SCENE DATA BP 2 CH 1	16282	166	SCENE DATA BP 20 CH 1	16277
24	CH 2	16154	168	CH 2	16159
26	REFLECTOR POSITION 3	5141	170	REFLECTOR POSITION 21	5141
28	REFL POS 3 2ND LOOK	5141	172	REFL POS 21 2ND LOOK	5141
30	SCENE DATA BP 3 CH 1	16276	174	SCENE DATA BP 21 CH 1	16283
32	CH 2	16155	176	CH 2	16159
34	REFLECTOR POSITION 4	5141	178	REFLECTOR POSITION 22	5141
36	REFL POS 4 2ND LOOK	5141	180	REFL POS 22 2ND LOOK	5141
38	SCENE DATA BP 4 CH 1	16275	182	SCENE DATA BP 22 CH 1	16280
40	CH 2	16159	184	CH 2	16160
42	REFLECTOR POSITION 5	5141	186	REFLECTOR POSITION 23	5141
44	REFL POS 5 2ND LOOK	5141	188	REFL POS 23 2ND LOOK	5141
46	SCENE DATA BP 5 CH 1	16280	190	SCENE DATA BP 23 CH 1	16278
48	CH 2	16155	192	CH 2	16154
50	REFLECTOR POSITION 6	5141	194	REFLECTOR POSITION 24	5141
52	REFL POS 6 2ND LOOK	5141	196	REFL POS 24 2ND LOOK	5141
54	SCENE DATA BP 6 CH 1	16276	198	SCENE DATA BP 24 CH 1	16277
56	CH 2	16161	200	CH 2	16160
58	REFLECTOR POSITION 7	5141	202	REFLECTOR POSITION 25	5141
60	REFL POS 7 2ND LOOK	5141	204	REFL POS 25 2ND LOOK	5141
62	SCENE DATA BP 7 CH 1	16277	206	SCENE DATA BP 25 CH 1	16279
64	CH 2	16164	208	CH 2	16156
66	REFLECTOR POSITION 8	5141	210	REFLECTOR POSITION 26	5141
68	REFL POS 8 2ND LOOK	5141	212	REFL POS 26 2ND LOOK	5141
70	SCENE DATA BP 8 CH 1	16276	214	SCENE DATA BP 26 CH 1	16279
72	CH 2	16158	216	CH 2	16161
74	REFLECTOR POSITION 9	5141	218	REFLECTOR POSITION 27	5141
76	REFL POS 9 2ND LOOK	5141	220	REFL POS 27 2ND LOOK	5141
78	SCENE DATA BP 9 CH 1	16277	222	SCENE DATA BP 27 CH 1	16276
80	CH 2	16158	224	CH 2	16155
82	REFLECTOR POSITION 10	5141	226	REFLECTOR POSITION 28	5141
84	REFL POS 10 2ND LOOK	5141	228	REFL POS 28 2ND LOOK	5141
86	SCENE DATA BP 10 CH 1	16281	230	SCENE DATA BP 28 CH 1	16284
88	CH 2	16160	232	CH 2	16160
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	5141
92	REFL POS 11 2ND LOOK	5141	236	REFL POS 29 2ND LOOK	5141

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16273	238	SCENE DATA BP 29 CH 1	16277
96	CH 2	16156	240	CH 2	16156
98	REFLECTOR POSITION 12	5141	242	REFLECTOR POSITION 30	5141
100	REFL POS 12 2ND LOOK	5141	244	REFL POS 30 2ND LOOK	5141
102	SCENE DATA BP 12 CH 1	16280	246	SCENE DATA BP 30 CH 1	16280
104	CH 2	16157	248	CH 2	16152
106	REFLECTOR POSITION 13	5141	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	5141	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16276	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16158	256	CH 2	0
114	REFLECTOR POSITION 14	5141	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	5141	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16274	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16148	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	5141	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	5141	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16280	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16158	312	CH 2	0
130	REFLECTOR POSITION 16	5141			
132	REFL POS 16 2ND LOOK	5141			
134	SCENE DATA BP 16 CH 1	16280			
136	CH 2	16159			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17630	22.84
264	FEED HORN	18150	23.30
266	RF MUX	18605	24.06
268	MIXER/IF AMPLIFIER CHANNEL 1	18724	24.32
270	MIXER/IF AMPLIFIER CHANNEL 2	18805	25.03
272	LOCAL OSCILLATOR CHANNEL 1	18464	24.64
274	LOCAL OSCILLATOR CHANNEL 2	19127	25.40
276	COMPENSATION MOTOR	17869	23.51
278	SUB REFLECTOR	18028	22.69
280	DC/DC CONVERTER	19887	27.37
282	RF SHELF	18117	23.95
284	DETECTOR/PREAMP ASSEMBLY	18567	24.16
286	WARM LOAD CENTER	22962	23.19
288	WARM LOAD 1	23047	23.42
290	WARM LOAD 2	22957	23.12
292	WARM LOAD 3	22878	23.32
294	WARM LOAD 4	22905	22.87
296	WARM LOAD 5	22991	23.17
298	WARM LOAD 6	23346	22.97
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	4	2.18	4	2.18	4	2.18
COMPENSATOR MOTOR CURRENT (AVERAGE)	4	2.18	4	2.18	4	2.18
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	151	-15.02	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS 37

1stCPT

S/0484113

AMSU A2-18 A2.EXE GSE MODE 4 BP 30 13-AUG-98 19:14:31 SCAN NUMBER 3
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO
4 99 RESOLVER ERROR FLAG SET
POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	2258
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	2258
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16300
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16180
5	DIGITAL B DATA BYTE 1	00000000	146	REFLECTOR POSITION 18	2258
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	2258
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16309
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16179
10	REFLECTOR POSITION 1	2258	154	REFLECTOR POSITION 19	2258
12	REFL POS 1 2ND LOOK	2258	156	REFL POS 19 2ND LOOK	2258
14	SCENE DATA BP 1 CH 1	16312	158	SCENE DATA BP 19 CH 1	16305
16	CH 2	16181	160	CH 2	16182
18	REFLECTOR POSITION 2	2258	162	REFLECTOR POSITION 20	2258
20	REFL POS 2 2ND LOOK	2258	164	REFL POS 20 2ND LOOK	2258
22	SCENE DATA BP 2 CH 1	16303	166	SCENE DATA BP 20 CH 1	16306
24	CH 2	16180	168	CH 2	16178
26	REFLECTOR POSITION 3	2258	170	REFLECTOR POSITION 21	2258
28	REFL POS 3 2ND LOOK	2258	172	REFL POS 21 2ND LOOK	2258
30	SCENE DATA BP 3 CH 1	16305	174	SCENE DATA BP 21 CH 1	16306
32	CH 2	16180	176	CH 2	16182
34	REFLECTOR POSITION 4	2258	178	REFLECTOR POSITION 22	2258
36	REFL POS 4 2ND LOOK	2258	180	REFL POS 22 2ND LOOK	2258
38	SCENE DATA BP 4 CH 1	16305	182	SCENE DATA BP 22 CH 1	16301
40	CH 2	16181	184	CH 2	16177
42	REFLECTOR POSITION 5	2258	186	REFLECTOR POSITION 23	2258
44	REFL POS 5 2ND LOOK	2258	188	REFL POS 23 2ND LOOK	2258
46	SCENE DATA BP 5 CH 1	16309	190	SCENE DATA BP 23 CH 1	16305
48	CH 2	16178	192	CH 2	16180
50	REFLECTOR POSITION 6	2258	194	REFLECTOR POSITION 24	2258
52	REFL POS 6 2ND LOOK	2258	196	REFL POS 24 2ND LOOK	2258
54	SCENE DATA BP 6 CH 1	16304	198	SCENE DATA BP 24 CH 1	16303
56	CH 2	16180	200	CH 2	16183
58	REFLECTOR POSITION 7	2258	202	REFLECTOR POSITION 25	2258
60	REFL POS 7 2ND LOOK	2258	204	REFL POS 25 2ND LOOK	2258
62	SCENE DATA BP 7 CH 1	16303	206	SCENE DATA BP 25 CH 1	16303
64	CH 2	16176	208	CH 2	16185
66	REFLECTOR POSITION 8	2258	210	REFLECTOR POSITION 26	2258
68	REFL POS 8 2ND LOOK	2258	212	REFL POS 26 2ND LOOK	2258
70	SCENE DATA BP 8 CH 1	16306	214	SCENE DATA BP 26 CH 1	16309
72	CH 2	16179	216	CH 2	16182
74	REFLECTOR POSITION 9	2258	218	REFLECTOR POSITION 27	2258
76	REFL POS 9 2ND LOOK	2258	220	REFL POS 27 2ND LOOK	2258
78	SCENE DATA BP 9 CH 1	16307	222	SCENE DATA BP 27 CH 1	16311
80	CH 2	16184	224	CH 2	16180
82	REFLECTOR POSITION 10	2258	226	REFLECTOR POSITION 28	2258
84	REFL POS 10 2ND LOOK	2258	228	REFL POS 28 2ND LOOK	2258
86	SCENE DATA BP 10 CH 1	16308	230	SCENE DATA BP 28 CH 1	16306
88	CH 2	16185	232	CH 2	16179
90	REFLECTOR POSITION 11	2258	234	REFLECTOR POSITION 29	2258
92	REFL POS 11 2ND LOOK	2258	236	REFL POS 29 2ND LOOK	2258

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16307	238	SCENE DATA BP 29 CH 1	16306
96	CH 2	16179	240	CH 2	16183
98	REFLECTOR POSITION 12	2258	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	2258	244	REFL POS 30 2ND LOOK	2258
102	SCENE DATA BP 12 CH 1	16303	246	SCENE DATA BP 30 CH 1	16304
104	CH 2	16177	248	CH 2	16180
106	REFLECTOR POSITION 13	2258	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	2258	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16306	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16179	256	CH 2	0
114	REFLECTOR POSITION 14	2258	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	2258	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16302	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16185	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	2258	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	2258	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16305	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16181	312	CH 2	0
130	REFLECTOR POSITION 16	2258			
132	REFL POS 16 2ND LOOK	2258			
134	SCENE DATA BP 16 CH 1	16305			
136	CH 2	16180			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17625	22.83
264	FEED HORN	18146	23.30
266	RF MUX	18615	24.07
268	MIXER/IF AMPLIFIER CHANNEL 1	18740	24.35
270	MIXER/IF AMPLIFIER CHANNEL 2	18818	25.06
272	LOCAL OSCILLATOR CHANNEL 1	18481	24.67
274	LOCAL OSCILLATOR CHANNEL 2	19149	25.44
276	COMPENSATION MOTOR	17855	23.48
278	SUB REFLECTOR	17979	22.60
280	DC/DC CONVERTER	19926	27.45
282	RF SHELF	18128	23.97
284	DETECTOR/PREAMP ASSEMBLY	18583	24.19
286	WARM LOAD CENTER	22975	23.22
288	WARM LOAD 1	23087	23.50
290	WARM LOAD 2	22968	23.14
292	WARM LOAD 3	22864	23.29
294	WARM LOAD 4	22909	22.88
296	WARM LOAD 5	23009	23.20
298	WARM LOAD 6	23350	22.98
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	4	2.18	4	2.18	4	2.18
COMPENSATOR MOTOR CURRENT (AVERAGE)	4	2.18	4	2.18	4	2.18
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

AMSU A2-18 A2.EXE GSE MODE 5 BP 6 14-AUG-98 00:55:13 SCAN NUMBER 92
[5] DIGITAL A DATA ELEMENT 0000

[6] DIGITAL B DATA ELEMENT 00

[7] ANALOG DATA ELEMENT 00

REFLECTOR POSITIONS

BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2	BP	LOOK 1	LOOK 2
1	5897	5897	9	5897	5897	17	5897	5897	25	5897	5897
2	5897	5897	10	5897	5897	18	5897	5897	26	5897	5897
3	5897	5897	11	5897	5897	19	5897	5897	27	5897	5897
4	5897	5897	12	5897	5897	20	5897	5897	28	5897	5897
5	5897	5897	13	5897	5897	21	5897	5897	29	5897	5897
6	5897	5897	14	5897	5897	22	5897	5897	30	5897	5897
7	5897	5897	15	5897	5897	23	5897	5897	CC	0	0
8	5897	5897	16	5897	5897	24	5897	5897	WC	0	0

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 2

Data In Support of TDS37 1st CPT S/O 484113

Support Data for TDS 37 1st CPT S/0484113

AMSU A2-18 A2.EXE GSE MODE 7 13-AUG-98 19:21:03 SCAN NUMBER 2
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO
 4 139 RESOLVER ERROR FLAG SET
 POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON 3

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	5899
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	5899
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16271
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16186
5	DIGITAL B DATA BYTE 1	00000000	146	REFLECTOR POSITION 18	5899
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	5899
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16271
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16182
10	REFLECTOR POSITION 1	5899	154	REFLECTOR POSITION 19	5899
12	REFL POS 1 2ND LOOK	5899	156	REFL POS 19 2ND LOOK	5899
14	SCENE DATA BP 1 CH 1	16277	158	SCENE DATA BP 19 CH 1	16271
16	CH 2	16192	160	CH 2	16187
18	REFLECTOR POSITION 2	5899	162	REFLECTOR POSITION 20	5899
20	REFL POS 2 2ND LOOK	5899	164	REFL POS 20 2ND LOOK	5899
22	SCENE DATA BP 2 CH 1	16272	166	SCENE DATA BP 20 CH 1	16272
24	CH 2	16179	168	CH 2	16188
26	REFLECTOR POSITION 3	5899	170	REFLECTOR POSITION 21	5899
28	REFL POS 3 2ND LOOK	5899	172	REFL POS 21 2ND LOOK	5899
30	SCENE DATA BP 3 CH 1	16271	174	SCENE DATA BP 21 CH 1	16268
32	CH 2	16190	176	CH 2	16184
34	REFLECTOR POSITION 4	5899	178	REFLECTOR POSITION 22	5899
36	REFL POS 4 2ND LOOK	5899	180	REFL POS 22 2ND LOOK	5899
38	SCENE DATA BP 4 CH 1	16272	182	SCENE DATA BP 22 CH 1	16269
40	CH 2	16188	184	CH 2	16185
42	REFLECTOR POSITION 5	5899	186	REFLECTOR POSITION 23	5899
44	REFL POS 5 2ND LOOK	5899	188	REFL POS 23 2ND LOOK	5899
46	SCENE DATA BP 5 CH 1	16271	190	SCENE DATA BP 23 CH 1	16274
48	CH 2	16183	192	CH 2	16187
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	5899
52	REFL POS 6 2ND LOOK	5899	196	REFL POS 24 2ND LOOK	5899
54	SCENE DATA BP 6 CH 1	16275	198	SCENE DATA BP 24 CH 1	16271
56	CH 2	16187	200	CH 2	16189
58	REFLECTOR POSITION 7	5899	202	REFLECTOR POSITION 25	5899
60	REFL POS 7 2ND LOOK	5899	204	REFL POS 25 2ND LOOK	5899
62	SCENE DATA BP 7 CH 1	16272	206	SCENE DATA BP 25 CH 1	16270
64	CH 2	16183	208	CH 2	16188
66	REFLECTOR POSITION 8	5899	210	REFLECTOR POSITION 26	5899
68	REFL POS 8 2ND LOOK	5899	212	REFL POS 26 2ND LOOK	5899
70	SCENE DATA BP 8 CH 1	16269	214	SCENE DATA BP 26 CH 1	16274
72	CH 2	16184	216	CH 2	16188
74	REFLECTOR POSITION 9	5899	218	REFLECTOR POSITION 27	5899
76	REFL POS 9 2ND LOOK	5899	220	REFL POS 27 2ND LOOK	5899
78	SCENE DATA BP 9 CH 1	16274	222	SCENE DATA BP 27 CH 1	16270
80	CH 2	16190	224	CH 2	16193
82	REFLECTOR POSITION 10	5899	226	REFLECTOR POSITION 28	5899
84	REFL POS 10 2ND LOOK	5899	228	REFL POS 28 2ND LOOK	5899
86	SCENE DATA BP 10 CH 1	16273	230	SCENE DATA BP 28 CH 1	16274
88	CH 2	16190	232	CH 2	16185
90	REFLECTOR POSITION 11	5899	234	REFLECTOR POSITION 29	5899
92	REFL POS 11 2ND LOOK	5899	236	REFL POS 29 2ND LOOK	5899

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16274	238	SCENE DATA BP 29 CH 1	16270
96	CH 2	16185	240	CH 2	16184
98	REFLECTOR POSITION 12	5899	242	REFLECTOR POSITION 30	5899
100	REFL POS 12 2ND LOOK	5899	244	REFL POS 30 2ND LOOK	5899
102	SCENE DATA BP 12 CH 1	16272	246	SCENE DATA BP 30 CH 1	16274
104	CH 2	16188	248	CH 2	16186
106	REFLECTOR POSITION 13	5899	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	5899	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16270	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16186	256	CH 2	0
114	REFLECTOR POSITION 14	5899	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	5899	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16272	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16183	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	5899	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	5899	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16269	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16186	312	CH 2	0
130	REFLECTOR POSITION 16	5899			
132	REFL POS 16 2ND LOOK	5899			
134	SCENE DATA BP 16 CH 1	16272			
136	CH 2	16188			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17630	22.84
264	FEED HORN	18138	23.28
266	RF MUX	18630	24.10
268	MIXER/IF AMPLIFIER CHANNEL 1	18766	24.40
270	MIXER/IF AMPLIFIER CHANNEL 2	18840	25.10
272	LOCAL OSCILLATOR CHANNEL 1	18507	24.72
274	LOCAL OSCILLATOR CHANNEL 2	19177	25.49
276	COMPENSATION MOTOR	17828	23.43
278	SUB REFLECTOR	17957	22.55
280	DC/DC CONVERTER	19993	27.58
282	RF SHELF	18144	24.00
284	DETECTOR/PREAMP ASSEMBLY	18608	24.24
286	WARM LOAD CENTER	22980	23.23
288	WARM LOAD 1	23070	23.47
290	WARM LOAD 2	22957	23.12
292	WARM LOAD 3	22870	23.30
294	WARM LOAD 4	22946	22.95
296	WARM LOAD 5	23035	23.25
298	WARM LOAD 6	23356	22.99
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	4	2.18	4	2.18	4	2.18
COMPENSATOR MOTOR CURRENT (AVERAGE)	4	2.18	4	2.18	4	2.18
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00



AE-26156/40

23 Jun 98

TEST DATA SHEET 38

Digital A/GSE Mode-1 Radiometer Data Section [V] (Paragraph 3.2.4.3.7.2)

BP	Channel-1 (23.8 GHz)		
	Measured*	Required**	Pass/Fail
01			P
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
CL		0	✓
WL		0	P

* Actual counts from computer printout. Rewriting counts on this data sheet is optional.

** Required = $16,500 \pm 4000$ counts.

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT _____Shop Order: 484113 SN: 105

Test Systems Engineer

Quality Control

8/13/98

Date

Date

TEST DATA SHEET 39
Digital A/GSE Mode-1 Temperature Sensors Section [VI] (Paragraph 3.2.4.3.7.2)

Thermistor Sensors		Recorded Value* (deg. C)	Required Value (deg. C)	Pass/ Fail
Element	Description			
0262	Warm Load 1 Scan Motor		25 ± 15	P
0264	Warm Load 2 Feed Horn		25 ± 15	
0266	Warm Load 3 RF Mux		25 ± 15	
0268	Warm Load 4 Mixer/IF Amp Channel 1		25 ± 15	
0270	Warm Load 5 Mixer/IF Amp Channel 2		25 ± 15	
0272	Warm Load 6 Local Oscillator Channel 1		25 ± 15	
0274	Warm Load Center Local Oscillator Channel 2		25 ± 15	
0276	Scan Motor Compensator Motor		25 ± 15	
0278	Compensator Motor Subreflector		25 ± 15	
0280	Feedhorn DC/DC Converter		25 ± 15	
0282	RF Mux RF Shelf		25 ± 15	
0284	Mixer I.F. Amp. Channel 1 Detector/Preamp		25 ± 15	
0286	Mixer I.F. Amp. Channel 2 Warm Load Center		25 ± 15	
0288	Subreflector Warm Load 1		25 ± 15	
0290	DC/DC Converter Warm Load 2		25 ± 15	
0292	RF Shelf Warmload 3		25 ± 15	
0294	Detector/Preamp Assembly Warmload 4		25 ± 15	
0296	Local Oscillator Channel 1 Warmload 5		25 ± 15	
0298	Local Oscillator Channel 2 Warmload 6		25 ± 15	P
0300	Temp Sensor V. Reference		**	

* Value is from the STE printout sheets. Copying data to this sheet is optional.

** COUNT OF 24,552 + 1765, - 1308

METSAT/AMSU A2 System CPT P/N IS-1331200

Circle Test: 1st CPT Final CPT Sub CPT

Shop Order: 484/113

S/N: 105

Test System Engineer

Date

Quality Control

Date

SUPPORT DATA FOR TDS 36-39 BICPT S/O 484113

AMSU A2-18 A2.EXE 10-10-10 CAL MODE 13-AUG-98 19:02:41 SCAN NUMBER 4
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = NO [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO
 4 14 RESOLVER ERROR FLAG SET
 POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON 3

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	665
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	665
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16310
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16184
5	DIGITAL B DATA BYTE 1	00000000	146	REFLECTOR POSITION 18	665
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	665
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16314
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16189
10	REFLECTOR POSITION 1	5897	154	REFLECTOR POSITION 19	665
12	REFL POS 1 2ND LOOK	5897	156	REFL POS 19 2ND LOOK	665
14	SCENE DATA BP 1 CH 1	16277	158	SCENE DATA BP 19 CH 1	16313
16	CH 2	16157	160	CH 2	16192
18	REFLECTOR POSITION 2	5897	162	REFLECTOR POSITION 20	665
20	REFL POS 2 2ND LOOK	5897	164	REFL POS 20 2ND LOOK	665
22	SCENE DATA BP 2 CH 1	16275	166	SCENE DATA BP 20 CH 1	16315
24	CH 2	16162	168	CH 2	16193
26	REFLECTOR POSITION 3	5897	170	REFLECTOR POSITION 21	12650
28	REFL POS 3 2ND LOOK	5897	172	REFL POS 21 2ND LOOK	12650
30	SCENE DATA BP 3 CH 1	16281	174	SCENE DATA BP 21 CH 1	16261
32	CH 2	16166	176	CH 2	16151
34	REFLECTOR POSITION 4	5897	178	REFLECTOR POSITION 22	12650
36	REFL POS 4 2ND LOOK	5897	180	REFL POS 22 2ND LOOK	12650
38	SCENE DATA BP 4 CH 1	16278	182	SCENE DATA BP 22 CH 1	16261
40	CH 2	16162	184	CH 2	16152
42	REFLECTOR POSITION 5	5897	186	REFLECTOR POSITION 23	12650
44	REFL POS 5 2ND LOOK	5897	188	REFL POS 23 2ND LOOK	12650
46	SCENE DATA BP 5 CH 1	16279	190	SCENE DATA BP 23 CH 1	16264
48	CH 2	16164	192	CH 2	16149
50	REFLECTOR POSITION 6	5897	194	REFLECTOR POSITION 24	12650
52	REFL POS 6 2ND LOOK	5897	196	REFL POS 24 2ND LOOK	12650
54	SCENE DATA BP 6 CH 1	16276	198	SCENE DATA BP 24 CH 1	16262
56	CH 2	16164	200	CH 2	16150
58	REFLECTOR POSITION 7	5897	202	REFLECTOR POSITION 25	12650
60	REFL POS 7 2ND LOOK	5897	204	REFL POS 25 2ND LOOK	12650
62	SCENE DATA BP 7 CH 1	16278	206	SCENE DATA BP 25 CH 1	16263
64	CH 2	16171	208	CH 2	16151
66	REFLECTOR POSITION 8	5897	210	REFLECTOR POSITION 26	12650
68	REFL POS 8 2ND LOOK	5897	212	REFL POS 26 2ND LOOK	12650
70	SCENE DATA BP 8 CH 1	16272	214	SCENE DATA BP 26 CH 1	16263
72	CH 2	16159	216	CH 2	16156
74	REFLECTOR POSITION 9	5897	218	REFLECTOR POSITION 27	12650
76	REFL POS 9 2ND LOOK	5897	220	REFL POS 27 2ND LOOK	12650
78	SCENE DATA BP 9 CH 1	16278	222	SCENE DATA BP 27 CH 1	16267
80	CH 2	16165	224	CH 2	16153
82	REFLECTOR POSITION 10	5897	226	REFLECTOR POSITION 28	12650
84	REFL POS 10 2ND LOOK	5897	228	REFL POS 28 2ND LOOK	12650
86	SCENE DATA BP 10 CH 1	16279	230	SCENE DATA BP 28 CH 1	16263
88	CH 2	16163	232	CH 2	16150
90	REFLECTOR POSITION 11	665	234	REFLECTOR POSITION 29	12650
92	REFL POS 11 2ND LOOK	665	236	REFL POS 29 2ND LOOK	12650

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16306	238	SCENE DATA BP 29 CH 1	16262
96	CH 2	16185	240	CH 2	16149
98	REFLECTOR POSITION 12	665	242	REFLECTOR POSITION 30	12650
100	REFL POS 12 2ND LOOK	665	244	REFL POS 30 2ND LOOK	12650
102	SCENE DATA BP 12 CH 1	16310	246	SCENE DATA BP 30 CH 1	16264
104	CH 2	16187	248	CH 2	16152
106	REFLECTOR POSITION 13	665	250	REFLECTOR COLD CAL POS	0E
108	REFL POS 13 2ND LOOK	665	252	REFL COLD CAL 2ND LOOK	0E
110	SCENE DATA BP 13 CH 1	16305	254	COLD CAL DATA 1 CH 1	0
112	CH 2	16192	256	CH 2	0
114	REFLECTOR POSITION 14	665	258	COLD CAL DATA 2 CH 1	0
116	REFL POS 14 2ND LOOK	665	260	CH 2	0
118	SCENE DATA BP 14 CH 1	16311	302	REFLECTOR WARM CAL POS	0E
120	CH 2	16186	304	REFL WARM CAL 2ND LOOK	0E
122	REFLECTOR POSITION 15	665	306	WARM CAL DATA 1 CH 1	0
124	REFL POS 15 2ND LOOK	665	308	CH 2	0
126	SCENE DATA BP 15 CH 1	16314	310	WARM CAL DATA 2 CH 1	0
128	CH 2	16187	312	CH 2	0
130	REFLECTOR POSITION 16	665			
132	REFL POS 16 2ND LOOK	665			
134	SCENE DATA BP 16 CH 1	16310			
136	CH 2	16192			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17637	22.86
264	FEED HORN	18151	23.31
266	RF MUX	18550	23.95
268	MIXER/IF AMPLIFIER CHANNEL 1	18647	24.17
270	MIXER/IF AMPLIFIER CHANNEL 2	18741	24.91
272	LOCAL OSCILLATOR CHANNEL 1	18395	24.50
274	LOCAL OSCILLATOR CHANNEL 2	19045	25.24
276	COMPENSATION MOTOR	17890	23.55
278	SUB REFLECTOR	18014	22.66
280	DC/DC CONVERTER	19714	27.04
282	RF SHELF	18060	23.84
284	DETECTOR/PREAMP ASSEMBLY	18503	24.03
286	WARM LOAD CENTER	22966	23.20
288	WARM LOAD 1	23039	23.41
290	WARM LOAD 2	22937	23.08
292	WARM LOAD 3	22861	23.28
294	WARM LOAD 4	22920	22.90
296	WARM LOAD 5	23000	23.18
298	WARM LOAD 6	23332	22.94
300	TEMP SENSOR REFERENCE VOLTAGE	25003	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	NO	NO	NO
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	22	12.01	22	12.01	22	12.01
COMPENSATOR MOTOR CURRENT (AVERAGE)	21	11.47	21	11.47	20	10.92
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

TEST DATA SHEET 40
 Radiometer Relative NEAT Verification (Paragraph 3.2.4.4.1)

Channel	Channel 1	Channel 2
NEAT (Average of 5 data)	0.192	0.197
NEAT (specified)*	0.30 K	0.30 K
Pass/Fail**	P	P

- * For reference only.
- ** Use first CPT or first LPT data along with specified value for pass fail criteria.

METSAT/AMSU A2 System CPT P/N IS-1331200 Shop Order: 484113 S/N: 105

Circle Test: 1st CPT Final CPT Sub CPT

J. Halacgar 8-13-98 Date

Customer Representative Date

(Flight Hardware Only)

8/12/98 Date

Test Systems Engineer Date

2.3 Date

Quality Control Date

SUPPORT DATA For TDS 40

1st CPT

S/O 484113

A2 FUNCTIONAL TEST RESULTS

A2.EXE

12-AUG-98

17:14:03

CH	WARM TEMP	WARM COUNTS	COLD COUNTS	GAIN	DELTA T
1	296.86	16291.0	13657.0	0.082	0.184
2	296.86	16201.0	12988.0	0.067	0.193

[2] PRINT SCREEN

[3] PRINT RAW DATA

[4] PRINT HISTOGRAM

[5] PRINT DISTRIBUTION GRAPH

SELECT_TOUCHSCREEN_BUTTON 2

RETURN [1]

A2 FUNCTIONAL TEST RESULTS
A2.EXE 12-AUG-98

17:15:15

CH	WARM TEMP	WARM COUNTS	COLD COUNTS	GAIN	DELTA T
1	296.86	16290.0	13678.0	0.083	0.188
2	296.86	16200.0	13018.0	0.068	0.204

[2] PRINT SCREEN

[3] PRINT RAW DATA

[4] PRINT HISTOGRAM

[5] PRINT DISTRIBUTION GRAPH
SELECT_TOUCHSCREEN_BUTTON 2

RETURN [1]

A2 FUNCTIONAL TEST RESULTS
A2.EXE 12-AUG-98

17:16:27

CH	WARM TEMP	WARM COUNTS	COLD COUNTS	GAIN	DELTA T
1	296.85	16290.0	13700.0	0.084	0.201
2	296.85	16200.0	13048.0	0.069	0.203

[2] PRINT SCREEN [3] PRINT RAW DATA [4] PRINT HISTOGRAM

[5] PRINT DISTRIBUTION GRAPH
SELECT_TOUCHSCREEN_BUTTON 2

RETURN [1]

A2 FUNCTIONAL TEST RESULTS
A2.EXE 12-AUG-98

17:17:31

CH	WARM TEMP	WARM COUNTS	COLD COUNTS	GAIN	DELTA T
1	296.83	16290.0	13717.0	0.084	0.188
2	296.83	16200.0	13076.0	0.069	0.190

[2] PRINT SCREEN

[3] PRINT RAW DATA

[4] PRINT HISTOGRAM

[5] PRINT DISTRIBUTION GRAPH
SELECT_TOUCHSCREEN_BUTTON 2

RETURN [1]

A2 FUNCTIONAL TEST RESULTS
A2.EXE 12-AUG-98

17:18:27

CH	WARM TEMP	WARM COUNTS	COLD COUNTS	GAIN	DELTA T
1	296.82	16290.0	13730.0	0.085	0.198
2	296.82	16200.0	13092.0	0.070	0.195

[2] PRINT SCREEN

[3] PRINT RAW DATA

[4] PRINT HISTOGRAM

[5] PRINT DISTRIBUTION GRAPH
SELECT_TOUCHSCREEN_BUTTON 2

RETURN [1]

TEST DATA SHEET 41
Transient Susceptibility Test (Paragraph 3.2.4.5)

Test Setup Verified: *Ray D. H. King*
Signature

3.2.4.5.3.2 +28V Main Bus Load-Induced Transient Test

Subpara	Step	Load Induced Transient	Functional Performance Results/Deviations	Comments/Observations
3.2.4.5.3.2.1	4	Low frequency in accordance with Figure 22	No Functional Performance Deviations	Observed normal Scene Data Variation
3.2.4.5.3.2.2	4	High frequency in accordance with Table IV	No Functional Performance Deviations	Observed normal Scene data Variation

3.2.4.5.3.3 +28V Pulse Load Bus Load-Induced Transient Test

Subpara	Step	Load Induced Transient	Functional Performance Results/Deviations	Comments/Observations
3.2.4.5.3.3.1	4	Low frequency in accordance with Figure 23	No Functional Performance Deviations	Observed normal Scene Data Variations
3.2.4.5.3.3.2	4	High frequency in accordance with Table IV	No Functional Performance Deviations	Observed normal Scene Data Variations

3.2.4.5.3.4 +28V Analog Telemetry Bus Load-Induced Transient Test

Subpara	Step	Load Induced Transient	Functional Performance Results/Deviations	Comments/Observations
3.2.4.5.3.4.1	4	Low frequency in accordance with Figure 22	No Functional Performance Deviations	Observed normal Scene Data Variations
3.2.4.5.3.4.2	4	High frequency in accordance with Table IV	No Functional Performance Deviations	Observed normal Scene Data Variations

NOTE: Attach all backup data generated during the test (photos, printouts, plots, test logs, additional comments or observations, etc.) to this data sheet.

METSAT/AMSU A2 System CPT P/N IS-1331200
Circle Test: 1st CPT Final CPT Sub CPT _____

Shop Order: 484113 SN: 105



8-13-98

R. Kalaczyn 8-13-98
Customer Representative Date
(Flight Hardware Only)

Test Systems Engineer 8-13-98 Date
Quality Control 8-13-98 Date

Support Data for TDS 41 1st OPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:24:28 SCAN NUMBER 1038
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT_TOUCHSCREEN_BUTTON

Pre-transient Telemetry Load Bus High freq (6.67Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16318
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16185
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16319
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16186
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16320	158	SCENE DATA BP 19 CH 1	16324
16	CH 2	16198	160	CH 2	16193
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16311	166	SCENE DATA BP 20 CH 1	16326
24	CH 2	16177	168	CH 2	16202
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16312	174	SCENE DATA BP 21 CH 1	16332
32	CH 2	16196	176	CH 2	16199
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16313	182	SCENE DATA BP 22 CH 1	16328
40	CH 2	16192	184	CH 2	16198
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16314	190	SCENE DATA BP 23 CH 1	16330
48	CH 2	16185	192	CH 2	16205
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16313	198	SCENE DATA BP 24 CH 1	16340
56	CH 2	16188	200	CH 2	16201
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16318	206	SCENE DATA BP 25 CH 1	16344
64	CH 2	16187	208	CH 2	16213
66	REFLECTOR POSITION 8	5596	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16315	214	SCENE DATA BP 26 CH 1	16335
72	CH 2	16185	216	CH 2	16203
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16315	222	SCENE DATA BP 27 CH 1	16332
80	CH 2	16190	224	CH 2	16199
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16310	230	SCENE DATA BP 28 CH 1	16327
88	CH 2	16184	232	CH 2	16190
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16318	238	SCENE DATA BP 29 CH 1	16330
96	CH 2	16190	240	CH 2	16188
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16314	246	SCENE DATA BP 30 CH 1	16335
104	CH 2	16186	248	CH 2	16207
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	666
110	SCENE DATA BP 13 CH 1	16317	254	COLD CAL DATA 1 CH 1	16346
112	CH 2	16188	256	CH 2	16215
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16345
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16213
118	SCENE DATA BP 14 CH 1	16314	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16188	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16296
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16178
126	SCENE DATA BP 15 CH 1	16325	310	WARM CAL DATA 2 CH 1	16291
128	CH 2	16198	312	CH 2	16174
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16320			
136	CH 2	16208			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17769	23.11
264	FEED HORN	18241	23.48
266	RF MUX	18549	23.95
268	MIXER/IF AMPLIFIER CHANNEL 1	18546	23.97
270	MIXER/IF AMPLIFIER CHANNEL 2	18613	24.66
272	LOCAL OSCILLATOR CHANNEL 1	18317	24.36
274	LOCAL OSCILLATOR CHANNEL 2	18848	24.86
276	COMPENSATION MOTOR	17966	23.69
278	SUB REFLECTOR	18132	22.89
280	DC/DC CONVERTER	19316	26.28
282	RF SHELF	18090	23.89
284	DETECTOR/PREAMP ASSEMBLY	18504	24.04
286	WARM LOAD CENTER	22994	23.25
288	WARM LOAD 1	23084	23.50
290	WARM LOAD 2	22965	23.14
292	WARM LOAD 3	22906	23.37
294	WARM LOAD 4	22971	23.00
296	WARM LOAD 5	23044	23.27
298	WARM LOAD 6	23378	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	108	58.97	110	60.06	109	59.5
COMPENSATOR MOTOR CURRENT (AVERAGE)	105	57.33	107	58.42	106	57.8
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	179	15.39	181	15.56	180	15.4
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	157	-15.10	158	-15.13	157	-15.1
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.0
ANTENNA DRIVE +5 VDC	155	5.18	156	5.22	155	5.1
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.0
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.0

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS 40 1st CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:28:06 SCAN NUMBER 1065
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Telemetry load Bas High freq. (6.67 Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16296
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16167
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16302
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16163
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3925
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16294	158	SCENE DATA BP 19 CH 1	16300
16	CH 2	16178	160	CH 2	16171
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16289	166	SCENE DATA BP 20 CH 1	16309
24	CH 2	16164	168	CH 2	16184
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16289	174	SCENE DATA BP 21 CH 1	16317
32	CH 2	16170	176	CH 2	16177
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16292	182	SCENE DATA BP 22 CH 1	16311
40	CH 2	16174	184	CH 2	16177
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16294	190	SCENE DATA BP 23 CH 1	16314
48	CH 2	16165	192	CH 2	16184
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16294	198	SCENE DATA BP 24 CH 1	16320
56	CH 2	16174	200	CH 2	16183
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16294	206	SCENE DATA BP 25 CH 1	16322
64	CH 2	16166	208	CH 2	16192
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16293	214	SCENE DATA BP 26 CH 1	16318
72	CH 2	16171	216	CH 2	16185
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16293	222	SCENE DATA BP 27 CH 1	16312
80	CH 2	16171	224	CH 2	16181
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16299	230	SCENE DATA BP 28 CH 1	16315
88	CH 2	16168	232	CH 2	16175
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16297	238	SCENE DATA BP 29 CH 1	16313
96	CH 2	16166	240	CH 2	16177
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16294	246	SCENE DATA BP 30 CH 1	16319
104	CH 2	16169	248	CH 2	16188
106	REFLECTOR POSITION 13	4838	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16301	254	COLD CAL DATA 1 CH 1	16322
112	CH 2	16175	256	CH 2	16194
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16326
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16190
118	SCENE DATA BP 14 CH 1	16298	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16166	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16279
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16162
126	SCENE DATA BP 15 CH 1	16305	310	WARM CAL DATA 2 CH 1	16278
128	CH 2	16182	312	CH 2	16157
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16298			
136	CH 2	16188			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17779	23.13
264	FEED HORN	18238	23.47
266	RF MUX	18571	23.99
268	MIXER/IF AMPLIFIER CHANNEL 1	18641	24.16
270	MIXER/IF AMPLIFIER CHANNEL 2	18716	24.86
272	LOCAL OSCILLATOR CHANNEL 1	18395	24.50
274	LOCAL OSCILLATOR CHANNEL 2	18995	25.14
276	COMPENSATION MOTOR	17986	23.73
278	SUB REFLECTOR	18130	22.88
280	DC/DC CONVERTER	19511	26.65
282	RF SHELF	18106	23.92
284	DETECTOR/PREAMP ASSEMBLY	18521	24.07
286	WARM LOAD CENTER	23013	23.29
288	WARM LOAD 1	23107	23.54
290	WARM LOAD 2	22990	23.19
292	WARM LOAD 3	22913	23.39
294	WARM LOAD 4	22987	23.04
296	WARM LOAD 5	23055	23.29
298	WARM LOAD 6	23376	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	217	22.1	217	22.1	218	23.4
WARM LOAD TEMPERATURE	217	22.1	217	22.1	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	109	59.51	107	58.42	109	59.51
COMPENSATOR MOTOR CURRENT (AVERAGE)	107	58.42	106	57.88	108	58.97
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	180	15.47	179	15.39	181	15.56
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	157	-15.10	156	-15.06	157	-15.10
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	155	5.18	154	5.15	156	5.22
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:27:08 SCAN NUMBER 1057
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Telemetry Load Bus High-Freq. (6.67Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16304
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16173
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16308
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16169
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16297	158	SCENE DATA BP 19 CH 1	16312
16	CH 2	16183	160	CH 2	16175
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16293	166	SCENE DATA BP 20 CH 1	16312
24	CH 2	16169	168	CH 2	16186
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16298	174	SCENE DATA BP 21 CH 1	16315
32	CH 2	16175	176	CH 2	16187
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16295	182	SCENE DATA BP 22 CH 1	16318
40	CH 2	16178	184	CH 2	16187
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16300	190	SCENE DATA BP 23 CH 1	16319
48	CH 2	16181	192	CH 2	16187
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16293	198	SCENE DATA BP 24 CH 1	16321
56	CH 2	16176	200	CH 2	16190
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5748	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16302	206	SCENE DATA BP 25 CH 1	16326
64	CH 2	16174	208	CH 2	16191
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16300	214	SCENE DATA BP 26 CH 1	16323
72	CH 2	16175	216	CH 2	16187
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16296	222	SCENE DATA BP 27 CH 1	16319
80	CH 2	16180	224	CH 2	16189
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16301	230	SCENE DATA BP 28 CH 1	16319
88	CH 2	16174	232	CH 2	16178
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16299	238	SCENE DATA BP 29 CH 1	16317
96	CH 2	16175	240	CH 2	16175
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16298	246	SCENE DATA BP 30 CH 1	16325
104	CH 2	16172	248	CH 2	16195
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16306	254	COLD CAL DATA 1 CH 1	16327
112	CH 2	16173	256	CH 2	16198
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16328
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16204
118	SCENE DATA BP 14 CH 1	16304	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16170	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16279
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16159
126	SCENE DATA BP 15 CH 1	16306	310	WARM CAL DATA 2 CH 1	16279
128	CH 2	16184	312	CH 2	16161
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16315			
136	CH 2	16194			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17775	23.12
264	FEED HORN	18234	23.46
266	RF MUX	18561	23.97
268	MIXER/IF AMPLIFIER CHANNEL 1	18616	24.11
270	MIXER/IF AMPLIFIER CHANNEL 2	18689	24.81
272	LOCAL OSCILLATOR CHANNEL 1	18372	24.46
274	LOCAL OSCILLATOR CHANNEL 2	18959	25.08
276	COMPENSATION MOTOR	17994	23.75
278	SUB REFLECTOR	18122	22.87
280	DC/DC CONVERTER	19454	26.54
282	RF SHELF	18098	23.91
284	DETECTOR/PREAMP ASSEMBLY	18515	24.06
286	WARM LOAD CENTER	23004	23.27
288	WARM LOAD 1	23112	23.55
290	WARM LOAD 2	23002	23.21
292	WARM LOAD 3	22895	23.35
294	WARM LOAD 4	22942	22.95
296	WARM LOAD 5	23037	23.26
298	WARM LOAD 6	23392	23.06
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	110	60.06	108	58.97	110	60.06
COMPENSATOR MOTOR CURRENT (AVERAGE)	108	58.97	106	57.88	108	58.97
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	181	15.56	179	15.39	181	15.56
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	157	-15.10	156	-15.06	158	-15.13
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	156	5.22	155	5.18	157	5.25
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st OPT S/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:17:28 SCAN NUMBER 1004
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-Transient Telemetry Load Bus High freq (5 Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16299
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16170
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16301
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16170
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16294	158	SCENE DATA BP 19 CH 1	16301
16	CH 2	16179	160	CH 2	16173
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6507	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16287	166	SCENE DATA BP 20 CH 1	16301
24	CH 2	16156	168	CH 2	16184
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16285	174	SCENE DATA BP 21 CH 1	16309
32	CH 2	16170	176	CH 2	16177
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16288	182	SCENE DATA BP 22 CH 1	16303
40	CH 2	16168	184	CH 2	16182
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16288	190	SCENE DATA BP 23 CH 1	16310
48	CH 2	16166	192	CH 2	16185
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16292	198	SCENE DATA BP 24 CH 1	16321
56	CH 2	16169	200	CH 2	16187
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16290	206	SCENE DATA BP 25 CH 1	16322
64	CH 2	16168	208	CH 2	16192
66	REFLECTOR POSITION 8	5594	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16293	214	SCENE DATA BP 26 CH 1	16317
72	CH 2	16171	216	CH 2	16181
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16287	222	SCENE DATA BP 27 CH 1	16311
80	CH 2	16164	224	CH 2	16183
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16287	230	SCENE DATA BP 28 CH 1	16312
88	CH 2	16167	232	CH 2	16171
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16291	238	SCENE DATA BP 29 CH 1	16312
96	CH 2	16167	240	CH 2	16170
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16290	246	SCENE DATA BP 30 CH 1	16317
104	CH 2	16170	248	CH 2	16188
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16295	254	COLD CAL DATA 1 CH 1	16323
112	CH 2	16172	256	CH 2	16197
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16325
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16196
118	SCENE DATA BP 14 CH 1	16294	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16168	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16277
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16159
126	SCENE DATA BP 15 CH 1	16302	310	WARM CAL DATA 2 CH 1	16274
128	CH 2	16181	312	CH 2	16161
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16304			
136	CH 2	16190			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17765	23.10
264	FEED HORN	18226	23.45
266	RF MUX	18551	23.95
268	MIXER/IF AMPLIFIER CHANNEL 1	18619	24.11
270	MIXER/IF AMPLIFIER CHANNEL 2	18698	24.83
272	LOCAL OSCILLATOR CHANNEL 1	18372	24.46
274	LOCAL OSCILLATOR CHANNEL 2	18976	25.11
276	COMPENSATION MOTOR	17975	23.71
278	SUB REFLECTOR	18107	22.84
280	DC/DC CONVERTER	19484	26.60
282	RF SHELF	18086	23.89
284	DETECTOR/PREAMP ASSEMBLY	18500	24.03
286	WARM LOAD CENTER	23015	23.30
288	WARM LOAD 1	23112	23.55
290	WARM LOAD 2	22980	23.17
292	WARM LOAD 3	22893	23.35
294	WARM LOAD 4	22962	22.99
296	WARM LOAD 5	23048	23.28
298	WARM LOAD 6	23386	23.05
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	217	22.1	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	103	56.24	102	55.60
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 411 1st CPT S/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:15:17 SCAN NUMBER 988
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Pre-transient Telemetry load Bus High freq (5Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16304
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16174
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16308
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16173
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16300	158	SCENE DATA BP 19 CH 1	16309
16	CH 2	16183	160	CH 2	16181
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16296	166	SCENE DATA BP 20 CH 1	16313
24	CH 2	16170	168	CH 2	16186
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16303	174	SCENE DATA BP 21 CH 1	16323
32	CH 2	16178	176	CH 2	16186
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16301	182	SCENE DATA BP 22 CH 1	16316
40	CH 2	16180	184	CH 2	16186
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16299	190	SCENE DATA BP 23 CH 1	16323
48	CH 2	16178	192	CH 2	16188
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16301	198	SCENE DATA BP 24 CH 1	16328
56	CH 2	16176	200	CH 2	16192
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16303	206	SCENE DATA BP 25 CH 1	16326
64	CH 2	16175	208	CH 2	16199
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16304	214	SCENE DATA BP 26 CH 1	16326
72	CH 2	16176	216	CH 2	16192
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16299	222	SCENE DATA BP 27 CH 1	16319
80	CH 2	16171	224	CH 2	16187
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16300	230	SCENE DATA BP 28 CH 1	16321
88	CH 2	16172	232	CH 2	16178
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16302	238	SCENE DATA BP 29 CH 1	16319
96	CH 2	16175	240	CH 2	16184
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16301	246	SCENE DATA BP 30 CH 1	16326
104	CH 2	16177	248	CH 2	16194
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16305	254	COLD CAL DATA 1 CH 1	16329
112	CH 2	16173	256	CH 2	16205
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16332
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16206
118	SCENE DATA BP 14 CH 1	16307	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16175	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16286
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16165
126	SCENE DATA BP 15 CH 1	16310	310	WARM CAL DATA 2 CH 1	16281
128	CH 2	16190	312	CH 2	16163
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16313			
136	CH 2	16192			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17756	23.08
264	FEED HORN	18218	23.43
266	RF MUX	18531	23.91
268	MIXER/IF AMPLIFIER CHANNEL 1	18570	24.02
270	MIXER/IF AMPLIFIER CHANNEL 2	18644	24.72
272	LOCAL OSCILLATOR CHANNEL 1	18331	24.38
274	LOCAL OSCILLATOR CHANNEL 2	18907	24.98
276	COMPENSATION MOTOR	17963	23.69
278	SUB REFLECTOR	18115	22.85
280	DC/DC CONVERTER	19379	26.40
282	RF SHELF	18072	23.86
284	DETECTOR/PREAMP ASSEMBLY	18484	24.00
286	WARM LOAD CENTER	22979	23.23
288	WARM LOAD 1	23078	23.49
290	WARM LOAD 2	22984	23.17
292	WARM LOAD 3	22902	23.36
294	WARM LOAD 4	22951	22.96
296	WARM LOAD 5	23023	23.23
298	WARM LOAD 6	23355	22.99
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS 41 1st NPT

S/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:06:45 SCAN NUMBER 937
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Telemetry Bus Load High freq. (2Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16302
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16173
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16305
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16175
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16299	158	SCENE DATA BP 19 CH 1	16303
16	CH 2	16184	160	CH 2	16178
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16292	166	SCENE DATA BP 20 CH 1	16312
24	CH 2	16169	168	CH 2	16185
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6355	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16299	174	SCENE DATA BP 21 CH 1	16313
32	CH 2	16177	176	CH 2	16186
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6204	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16298	182	SCENE DATA BP 22 CH 1	16312
40	CH 2	16178	184	CH 2	16183
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16300	190	SCENE DATA BP 23 CH 1	16316
48	CH 2	16176	192	CH 2	16186
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16296	198	SCENE DATA BP 24 CH 1	16323
56	CH 2	16183	200	CH 2	16187
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16301	206	SCENE DATA BP 25 CH 1	16324
64	CH 2	16179	208	CH 2	16199
66	REFLECTOR POSITION 8	5594	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16299	214	SCENE DATA BP 26 CH 1	16321
72	CH 2	16184	216	CH 2	16186
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16301	222	SCENE DATA BP 27 CH 1	16316
80	CH 2	16175	224	CH 2	16188
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16300	230	SCENE DATA BP 28 CH 1	16312
88	CH 2	16174	232	CH 2	16182
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16303	238	SCENE DATA BP 29 CH 1	16314
96	CH 2	16175	240	CH 2	16177
98	REFLECTOR POSITION 12	4987	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16301	246	SCENE DATA BP 30 CH 1	16323
104	CH 2	16180	248	CH 2	16191
106	REFLECTOR POSITION 13	4838	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16305	254	COLD CAL DATA 1 CH 1	16325
112	CH 2	16184	256	CH 2	16201
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16326
116	REFL POS 14 2ND LOOK	4686	260	CH 2	16202
118	SCENE DATA BP 14 CH 1	16298	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16179	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16284
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16163
126	SCENE DATA BP 15 CH 1	16310	310	WARM CAL DATA 2 CH 1	16277
128	CH 2	16183	312	CH 2	16163
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16307			
136	CH 2	16191			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17743	23.06
264	FEED HORN	18185	23.37
266	RF MUX	18494	23.84
268	MIXER/IF AMPLIFIER CHANNEL 1	18559	24.00
270	MIXER/IF AMPLIFIER CHANNEL 2	18633	24.70
272	LOCAL OSCILLATOR CHANNEL 1	18314	24.35
274	LOCAL OSCILLATOR CHANNEL 2	18906	24.97
276	COMPENSATION MOTOR	17957	23.68
278	SUB REFLECTOR	18100	22.83
280	DC/DC CONVERTER	19335	26.31
282	RF SHELF	18039	23.80
284	DETECTOR/PREAMP ASSEMBLY	18447	23.93
286	WARM LOAD CENTER	22985	23.24
288	WARM LOAD 1	23086	23.50
290	WARM LOAD 2	22997	23.20
292	WARM LOAD 3	22906	23.37
294	WARM LOAD 4	22948	22.96
296	WARM LOAD 5	23032	23.25
298	WARM LOAD 6	23368	23.01
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	217	22.1	217	22.1	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
ANAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st OPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:07:36 SCAN NUMBER 943
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Telemetry Bus Load High freq. (2Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16302
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16174
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16300
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16169
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16292	158	SCENE DATA BP 19 CH 1	16302
16	CH 2	16174	160	CH 2	16177
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16287	166	SCENE DATA BP 20 CH 1	16305
24	CH 2	16164	168	CH 2	16186
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16290	174	SCENE DATA BP 21 CH 1	16312
32	CH 2	16174	176	CH 2	16188
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16292	182	SCENE DATA BP 22 CH 1	16305
40	CH 2	16172	184	CH 2	16179
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16291	190	SCENE DATA BP 23 CH 1	16313
48	CH 2	16169	192	CH 2	16182
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3171
54	SCENE DATA BP 6 CH 1	16289	198	SCENE DATA BP 24 CH 1	16319
56	CH 2	16171	200	CH 2	16186
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16292	206	SCENE DATA BP 25 CH 1	16321
64	CH 2	16165	208	CH 2	16196
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16290	214	SCENE DATA BP 26 CH 1	16318
72	CH 2	16172	216	CH 2	16180
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16288	222	SCENE DATA BP 27 CH 1	16308
80	CH 2	16172	224	CH 2	16184
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16293	230	SCENE DATA BP 28 CH 1	16313
88	CH 2	16168	232	CH 2	16171
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2410
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16296	238	SCENE DATA BP 29 CH 1	16313
96	CH 2	16166	240	CH 2	16182
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16292	246	SCENE DATA BP 30 CH 1	16317
104	CH 2	16169	248	CH 2	16191
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16295	254	COLD CAL DATA 1 CH 1	16324
112	CH 2	16166	256	CH 2	16200
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16323
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16199
118	SCENE DATA BP 14 CH 1	16297	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16165	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16280
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16160
126	SCENE DATA BP 15 CH 1	16303	310	WARM CAL DATA 2 CH 1	16280
128	CH 2	16182	312	CH 2	16156
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4383			
134	SCENE DATA BP 16 CH 1	16305			
136	CH 2	16184			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17757	23.08
264	FEED HORN	18190	23.38
266	RF MUX	18506	23.87
268	MIXER/IF AMPLIFIER CHANNEL 1	18574	24.03
270	MIXER/IF AMPLIFIER CHANNEL 2	18651	24.74
272	LOCAL OSCILLATOR CHANNEL 1	18327	24.37
274	LOCAL OSCILLATOR CHANNEL 2	18928	25.02
276	COMPENSATION MOTOR	17956	23.67
278	SUB REFLECTOR	18086	22.80
280	DC/DC CONVERTER	19374	26.39
282	RF SHELF	18046	23.81
284	DETECTOR/PREAMP ASSEMBLY	18456	23.95
286	WARM LOAD CENTER	23022	23.31
288	WARM LOAD 1	23104	23.54
290	WARM LOAD 2	22974	23.16
292	WARM LOAD 3	22874	23.31
294	WARM LOAD 4	22929	22.92
296	WARM LOAD 5	23036	23.26
298	WARM LOAD 6	23377	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	217	22.1	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/6 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:14:26 SCAN NUMBER 981
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Telemetry Load Bas High Freq (5Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16311
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16182
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16315
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16178
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16307	158	SCENE DATA BP 19 CH 1	16313
16	CH 2	16187	160	CH 2	16187
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16304	166	SCENE DATA BP 20 CH 1	16319
24	CH 2	16178	168	CH 2	16196
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16305	174	SCENE DATA BP 21 CH 1	16325
32	CH 2	16187	176	CH 2	16195
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16304	182	SCENE DATA BP 22 CH 1	16322
40	CH 2	16183	184	CH 2	16192
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16308	190	SCENE DATA BP 23 CH 1	16325
48	CH 2	16177	192	CH 2	16191
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3171
54	SCENE DATA BP 6 CH 1	16306	198	SCENE DATA BP 24 CH 1	16329
56	CH 2	16188	200	CH 2	16201
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16306	206	SCENE DATA BP 25 CH 1	16333
64	CH 2	16183	208	CH 2	16207
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16306	214	SCENE DATA BP 26 CH 1	16331
72	CH 2	16183	216	CH 2	16196
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16306	222	SCENE DATA BP 27 CH 1	16323
80	CH 2	16184	224	CH 2	16193
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16308	230	SCENE DATA BP 28 CH 1	16323
88	CH 2	16181	232	CH 2	16183
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16311	238	SCENE DATA BP 29 CH 1	16324
96	CH 2	16184	240	CH 2	16185
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16309	246	SCENE DATA BP 30 CH 1	16334
104	CH 2	16183	248	CH 2	16201
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16315	254	COLD CAL DATA 1 CH 1	16335
112	CH 2	16186	256	CH 2	16208
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16341
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16210
118	SCENE DATA BP 14 CH 1	16307	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16179	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16288
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16172
126	SCENE DATA BP 15 CH 1	16319	310	WARM CAL DATA 2 CH 1	16289
128	CH 2	16194	312	CH 2	16168
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4383			
134	SCENE DATA BP 16 CH 1	16319			
136	CH 2	16200			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17748	23.07
264	FEED HORN	18218	23.43
266	RF MUX	18528	23.91
268	MIXER/IF AMPLIFIER CHANNEL 1	18543	23.97
270	MIXER/IF AMPLIFIER CHANNEL 2	18616	24.67
272	LOCAL OSCILLATOR CHANNEL 1	18309	24.34
274	LOCAL OSCILLATOR CHANNEL 2	18865	24.89
276	COMPENSATION MOTOR	17966	23.69
278	SUB REFLECTOR	18112	22.85
280	DC/DC CONVERTER	19323	26.29
282	RF SHELF	18068	23.85
284	DETECTOR/PREAMP ASSEMBLY	18480	23.99
286	WARM LOAD CENTER	22998	23.26
288	WARM LOAD 1	23107	23.54
290	WARM LOAD 2	23007	23.22
292	WARM LOAD 3	22904	23.37
294	WARM LOAD 4	22941	22.94
296	WARM LOAD 5	23027	23.24
298	WARM LOAD 6	23378	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	103	56.24	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	101	55.15	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	151	-15.02	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:04:34 SCAN NUMBER 920
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Telemetry Load High freq (2Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16314
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16184
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16311
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16178
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16310	158	SCENE DATA BP 19 CH 1	16318
16	CH 2	16183	160	CH 2	16185
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16301	166	SCENE DATA BP 20 CH 1	16324
24	CH 2	16171	168	CH 2	16189
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16306	174	SCENE DATA BP 21 CH 1	16324
32	CH 2	16181	176	CH 2	16192
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16305	182	SCENE DATA BP 22 CH 1	16322
40	CH 2	16183	184	CH 2	16191
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16310	190	SCENE DATA BP 23 CH 1	16326
48	CH 2	16180	192	CH 2	16200
50	REFLECTOR POSITION 6	5900	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16305	198	SCENE DATA BP 24 CH 1	16335
56	CH 2	16182	200	CH 2	16194
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16313	206	SCENE DATA BP 25 CH 1	16336
64	CH 2	16174	208	CH 2	16202
66	REFLECTOR POSITION 8	5594	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16308	214	SCENE DATA BP 26 CH 1	16330
72	CH 2	16182	216	CH 2	16199
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16311	222	SCENE DATA BP 27 CH 1	16328
80	CH 2	16180	224	CH 2	16192
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16310	230	SCENE DATA BP 28 CH 1	16326
88	CH 2	16180	232	CH 2	16182
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16311	238	SCENE DATA BP 29 CH 1	16329
96	CH 2	16177	240	CH 2	16180
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16307	246	SCENE DATA BP 30 CH 1	16335
104	CH 2	16185	248	CH 2	16203
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16312	254	COLD CAL DATA 1 CH 1	16340
112	CH 2	16181	256	CH 2	16209
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16339
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16207
118	SCENE DATA BP 14 CH 1	16312	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16179	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16288
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16169
126	SCENE DATA BP 15 CH 1	16317	310	WARM CAL DATA 2 CH 1	16287
128	CH 2	16193	312	CH 2	16164
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16316			
136	CH 2	16198			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17747	23.07
264	FEED HORN	18178	23.36
266	RF MUX	18473	23.80
268	MIXER/IF AMPLIFIER CHANNEL 1	18503	23.89
270	MIXER/IF AMPLIFIER CHANNEL 2	18571	24.58
272	LOCAL OSCILLATOR CHANNEL 1	18266	24.26
274	LOCAL OSCILLATOR CHANNEL 2	18821	24.81
276	COMPENSATION MOTOR	17932	23.63
278	SUB REFLECTOR	18092	22.81
280	DC/DC CONVERTER	19205	26.06
282	RF SHELF	18022	23.76
284	DETECTOR/PREAMP ASSEMBLY	18430	23.90
286	WARM LOAD CENTER	23001	23.27
288	WARM LOAD 1	23090	23.51
290	WARM LOAD 2	22977	23.16
292	WARM LOAD 3	22880	23.32
294	WARM LOAD 4	22924	22.91
296	WARM LOAD 5	23024	23.23
298	WARM LOAD 6	23392	23.06
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	217	22.1	217	22.1	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	101	55.15	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT 8/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:05:19 SCAN NUMBER 926
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Pre-transient Telemetry Load High freq. (2Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16309
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16178
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16308
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16176
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16302	158	SCENE DATA BP 19 CH 1	16310
16	CH 2	16185	160	CH 2	16177
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16296	166	SCENE DATA BP 20 CH 1	16315
24	CH 2	16167	168	CH 2	16190
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6355	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16301	174	SCENE DATA BP 21 CH 1	16325
32	CH 2	16176	176	CH 2	16190
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16303	182	SCENE DATA BP 22 CH 1	16319
40	CH 2	16175	184	CH 2	16189
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16305	190	SCENE DATA BP 23 CH 1	16328
48	CH 2	16177	192	CH 2	16186
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3171
54	SCENE DATA BP 6 CH 1	16300	198	SCENE DATA BP 24 CH 1	16331
56	CH 2	16178	200	CH 2	16196
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16306	206	SCENE DATA BP 25 CH 1	16333
64	CH 2	16174	208	CH 2	16205
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2864
68	REFL POS 8 2ND LOOK	5598	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16303	214	SCENE DATA BP 26 CH 1	16326
72	CH 2	16178	216	CH 2	16192
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16298	222	SCENE DATA BP 27 CH 1	16322
80	CH 2	16179	224	CH 2	16192
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16300	230	SCENE DATA BP 28 CH 1	16322
88	CH 2	16171	232	CH 2	16183
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16305	238	SCENE DATA BP 29 CH 1	16319
96	CH 2	16176	240	CH 2	16181
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16304	246	SCENE DATA BP 30 CH 1	16327
104	CH 2	16176	248	CH 2	16195
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16304	254	COLD CAL DATA 1 CH 1	16335
112	CH 2	16175	256	CH 2	16204
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16336
116	REFL POS 14 2ND LOOK	4686	260	CH 2	16206
118	SCENE DATA BP 14 CH 1	16303	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16176	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16285
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16165
126	SCENE DATA BP 15 CH 1	16311	310	WARM CAL DATA 2 CH 1	16285
128	CH 2	16187	312	CH 2	16163
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16313			
136	CH 2	16191			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17751	23.07
264	FEED HORN	18179	23.36
266	RF MUX	18479	23.81
268	MIXER/IF AMPLIFIER CHANNEL 1	18525	23.93
270	MIXER/IF AMPLIFIER CHANNEL 2	18593	24.62
272	LOCAL OSCILLATOR CHANNEL 1	18284	24.29
274	LOCAL OSCILLATOR CHANNEL 2	18854	24.87
276	COMPENSATION MOTOR	17923	23.61
278	SUB REFLECTOR	18092	22.81
280	DC/DC CONVERTER	19254	26.16
282	RF SHELF	18029	23.78
284	DETECTOR/PREAMP ASSEMBLY	18435	23.90
286	WARM LOAD CENTER	22989	23.25
288	WARM LOAD 1	23073	23.48
290	WARM LOAD 2	22957	23.12
292	WARM LOAD 3	22883	23.33
294	WARM LOAD 4	22964	22.99
296	WARM LOAD 5	23032	23.25
298	WARM LOAD 6	23358	22.99
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	101	55.15	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	99	54.05	99	54.05	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:55:27 SCAN NUMBER 876
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Telemetry Bus Low Freq

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16306
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16176
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16310
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16173
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16298	158	SCENE DATA BP 19 CH 1	16311
16	CH 2	16177	160	CH 2	16181
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16296	166	SCENE DATA BP 20 CH 1	16316
24	CH 2	16170	168	CH 2	16185
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16296	174	SCENE DATA BP 21 CH 1	16321
32	CH 2	16173	176	CH 2	16185
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16296	182	SCENE DATA BP 22 CH 1	16309
40	CH 2	16176	184	CH 2	16182
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16299	190	SCENE DATA BP 23 CH 1	16316
48	CH 2	16173	192	CH 2	16191
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16294	198	SCENE DATA BP 24 CH 1	16328
56	CH 2	16183	200	CH 2	16192
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16302	206	SCENE DATA BP 25 CH 1	16331
64	CH 2	16169	208	CH 2	16194
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16295	214	SCENE DATA BP 26 CH 1	16326
72	CH 2	16172	216	CH 2	16183
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16301	222	SCENE DATA BP 27 CH 1	16316
80	CH 2	16169	224	CH 2	16187
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16303	230	SCENE DATA BP 28 CH 1	16319
88	CH 2	16169	232	CH 2	16179
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16308	238	SCENE DATA BP 29 CH 1	16321
96	CH 2	16175	240	CH 2	16175
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16297	246	SCENE DATA BP 30 CH 1	16326
104	CH 2	16169	248	CH 2	16192
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16305	254	COLD CAL DATA 1 CH 1	16333
112	CH 2	16177	256	CH 2	16209
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16335
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16204
118	SCENE DATA BP 14 CH 1	16303	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16175	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16283
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16168
126	SCENE DATA BP 15 CH 1	16310	310	WARM CAL DATA 2 CH 1	16282
128	CH 2	16183	312	CH 2	16162
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16313			
136	CH 2	16187			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17748	23.07
264	FEED HORN	18158	23.32
266	RF MUX	18464	23.79
268	MIXER/IF AMPLIFIER CHANNEL 1	18532	23.95
270	MIXER/IF AMPLIFIER CHANNEL 2	18599	24.64
272	LOCAL OSCILLATOR CHANNEL 1	18287	24.30
274	LOCAL OSCILLATOR CHANNEL 2	18876	24.92
276	COMPENSATION MOTOR	17923	23.61
278	SUB REFLECTOR	18093	22.81
280	DC/DC CONVERTER	19233	26.12
282	RF SHELF	18011	23.74
284	DETECTOR/PREAMP ASSEMBLY	18418	23.87
286	WARM LOAD CENTER	22981	23.23
288	WARM LOAD 1	23072	23.47
290	WARM LOAD 2	22982	23.17
292	WARM LOAD 3	22904	23.37
294	WARM LOAD 4	22943	22.95
296	WARM LOAD 5	23025	23.23
298	WARM LOAD 6	23374	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	108	58.97	109	59.51	109	59.51
COMPENSATOR MOTOR CURRENT (AVERAGE)	105	57.33	106	57.88	106	57.88
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	179	15.39	180	15.47	179	15.39
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	157	-15.10	158	-15.13	156	-15.06
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	155	5.18	156	5.22	155	5.18
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:54:42 SCAN NUMBER 870
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-Transient Telemetry Bus Lowfreq

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16313
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16182
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16319
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16184
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16302	158	SCENE DATA BP 19 CH 1	16315
16	CH 2	16185	160	CH 2	16187
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16300	166	SCENE DATA BP 20 CH 1	16324
24	CH 2	16171	168	CH 2	16198
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16300	174	SCENE DATA BP 21 CH 1	16328
32	CH 2	16179	176	CH 2	16196
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16303	182	SCENE DATA BP 22 CH 1	16322
40	CH 2	16184	184	CH 2	16193
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16306	190	SCENE DATA BP 23 CH 1	16324
48	CH 2	16177	192	CH 2	16195
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16307	198	SCENE DATA BP 24 CH 1	16333
56	CH 2	16187	200	CH 2	16205
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16307	206	SCENE DATA BP 25 CH 1	16336
64	CH 2	16176	208	CH 2	16206
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16303	214	SCENE DATA BP 26 CH 1	16327
72	CH 2	16183	216	CH 2	16196
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16302	222	SCENE DATA BP 27 CH 1	16322
80	CH 2	16178	224	CH 2	16192
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16306	230	SCENE DATA BP 28 CH 1	16320
88	CH 2	16186	232	CH 2	16183
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16310	238	SCENE DATA BP 29 CH 1	16322
96	CH 2	16181	240	CH 2	16184
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16308	246	SCENE DATA BP 30 CH 1	16329
104	CH 2	16183	248	CH 2	16197
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	666
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	666
110	SCENE DATA BP 13 CH 1	16313	254	COLD CAL DATA 1 CH 1	16328
112	CH 2	16188	256	CH 2	16208
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16333
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16203
118	SCENE DATA BP 14 CH 1	16310	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16180	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16284
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16161
126	SCENE DATA BP 15 CH 1	16317	310	WARM CAL DATA 2 CH 1	16277
128	CH 2	16188	312	CH 2	16160
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16311			
136	CH 2	16199			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17742	23.06
264	FEED HORN	18153	23.31
266	RF MUX	18451	23.76
268	MIXER/IF AMPLIFIER CHANNEL 1	18513	23.91
270	MIXER/IF AMPLIFIER CHANNEL 2	18575	24.59
272	LOCAL OSCILLATOR CHANNEL 1	18272	24.27
274	LOCAL OSCILLATOR CHANNEL 2	18844	24.85
276	COMPENSATION MOTOR	17920	23.61
278	SUB REFLECTOR	18093	22.81
280	DC/DC CONVERTER	19179	26.01
282	RF SHELF	18005	23.73
284	DETECTOR/PREAMP ASSEMBLY	18409	23.86
286	WARM LOAD CENTER	22979	23.23
288	WARM LOAD 1	23080	23.49
290	WARM LOAD 2	22991	23.19
292	WARM LOAD 3	22898	23.36
294	WARM LOAD 4	22949	22.96
296	WARM LOAD 5	23042	23.27
298	WARM LOAD 6	23384	23.05
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	217	22.1	217	22.1	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	108	58.97	107	58.42	110	60.06
COMPENSATOR MOTOR CURRENT (AVERAGE)	106	57.88	105	57.33	108	58.97
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	179	15.39	178	15.30	181	15.56
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	156	-15.06	155	-15.03	158	-15.13
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	154	5.15	153	5.12	156	5.22
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st QPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:51:31 SCAN NUMBER 846
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Telemetry Bus Low Freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16323
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16193
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16326
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16188
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16319	158	SCENE DATA BP 19 CH 1	16327
16	CH 2	16201	160	CH 2	16197
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16318	166	SCENE DATA BP 20 CH 1	16335
24	CH 2	16186	168	CH 2	16199
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16322	174	SCENE DATA BP 21 CH 1	16339
32	CH 2	16192	176	CH 2	16204
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16318	182	SCENE DATA BP 22 CH 1	16333
40	CH 2	16188	184	CH 2	16201
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16316	190	SCENE DATA BP 23 CH 1	16338
48	CH 2	16190	192	CH 2	16210
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16320	198	SCENE DATA BP 24 CH 1	16350
56	CH 2	16198	200	CH 2	16209
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16317	206	SCENE DATA BP 25 CH 1	16349
64	CH 2	16194	208	CH 2	16214
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16321	214	SCENE DATA BP 26 CH 1	16343
72	CH 2	16194	216	CH 2	16209
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16320	222	SCENE DATA BP 27 CH 1	16331
80	CH 2	16194	224	CH 2	16207
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16319	230	SCENE DATA BP 28 CH 1	16335
88	CH 2	16194	232	CH 2	16193
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16323	238	SCENE DATA BP 29 CH 1	16340
96	CH 2	16192	240	CH 2	16199
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16323	246	SCENE DATA BP 30 CH 1	16341
104	CH 2	16190	248	CH 2	16212
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16322	254	COLD CAL DATA 1 CH 1	16350
112	CH 2	16194	256	CH 2	16215
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16352
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16217
118	SCENE DATA BP 14 CH 1	16323	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16190	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16305
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16182
126	SCENE DATA BP 15 CH 1	16329	310	WARM CAL DATA 2 CH 1	16301
128	CH 2	16197	312	CH 2	16180
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16330			
136	CH 2	16208			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17749	23.07
264	FEED HORN	18151	23.31
266	RF MUX	18419	23.70
268	MIXER/IF AMPLIFIER CHANNEL 1	18429	23.75
270	MIXER/IF AMPLIFIER CHANNEL 2	18474	24.40
272	LOCAL OSCILLATOR CHANNEL 1	18202	24.14
274	LOCAL OSCILLATOR CHANNEL 2	18704	24.59
276	COMPENSATION MOTOR	17878	23.53
278	SUB REFLECTOR	18105	22.83
280	DC/DC CONVERTER	18966	25.60
282	RF SHELF	17988	23.70
284	DETECTOR/PREAMP ASSEMBLY	18388	23.82
286	WARM LOAD CENTER	22998	23.26
288	WARM LOAD 1	23082	23.49
290	WARM LOAD 2	22964	23.14
292	WARM LOAD 3	22887	23.33
294	WARM LOAD 4	22958	22.98
296	WARM LOAD 5	23036	23.26
298	WARM LOAD 6	23366	23.01
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	110	60.06	109	59.51	108	58.97
COMPENSATOR MOTOR CURRENT (AVERAGE)	107	58.42	106	57.88	105	57.33
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	181	15.56	179	15.39	179	15.39
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	156	-15.06	155	-15.03	155	-15.03
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	155	5.18	154	5.15	153	5.12
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st OPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:25:22 SCAN NUMBER 1044
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Re-transient Telemetry Load Bus High Freq (6.67Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16309
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16182
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16310
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16178
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16302	158	SCENE DATA BP 19 CH 1	16312
16	CH 2	16186	160	CH 2	16184
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16300	166	SCENE DATA BP 20 CH 1	16319
24	CH 2	16165	168	CH 2	16194
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16306	174	SCENE DATA BP 21 CH 1	16324
32	CH 2	16179	176	CH 2	16189
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16305	182	SCENE DATA BP 22 CH 1	16321
40	CH 2	16187	184	CH 2	16188
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16306	190	SCENE DATA BP 23 CH 1	16328
48	CH 2	16178	192	CH 2	16193
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16304	198	SCENE DATA BP 24 CH 1	16331
56	CH 2	16181	200	CH 2	16199
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5748	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16305	206	SCENE DATA BP 25 CH 1	16334
64	CH 2	16179	208	CH 2	16201
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16303	214	SCENE DATA BP 26 CH 1	16334
72	CH 2	16179	216	CH 2	16191
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16305	222	SCENE DATA BP 27 CH 1	16325
80	CH 2	16175	224	CH 2	16191
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16303	230	SCENE DATA BP 28 CH 1	16324
88	CH 2	16184	232	CH 2	16185
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16310	238	SCENE DATA BP 29 CH 1	16321
96	CH 2	16173	240	CH 2	16190
98	REFLECTOR POSITION 12	4989	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16312	246	SCENE DATA BP 30 CH 1	16336
104	CH 2	16181	248	CH 2	16195
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16307	254	COLD CAL DATA 1 CH 1	16340
112	CH 2	16179	256	CH 2	16206
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16333
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16210
118	SCENE DATA BP 14 CH 1	16308	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16179	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16288
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16172
126	SCENE DATA BP 15 CH 1	16317	310	WARM CAL DATA 2 CH 1	16285
128	CH 2	16190	312	CH 2	16173
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16312			
136	CH 2	16193			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17777	23.12
264	FEED HORN	18236	23.47
266	RF MUX	18552	23.95
268	MIXER/IF AMPLIFIER CHANNEL 1	18575	24.03
270	MIXER/IF AMPLIFIER CHANNEL 2	18644	24.72
272	LOCAL OSCILLATOR CHANNEL 1	18339	24.40
274	LOCAL OSCILLATOR CHANNEL 2	18894	24.95
276	COMPENSATION MOTOR	17964	23.69
278	SUB REFLECTOR	18125	22.87
280	DC/DC CONVERTER	19370	26.38
282	RF SHELF	18091	23.90
284	DETECTOR/PREAMP ASSEMBLY	18506	24.04
286	WARM LOAD CENTER	23015	23.30
288	WARM LOAD 1	23091	23.51
290	WARM LOAD 2	22968	23.14
292	WARM LOAD 3	22894	23.35
294	WARM LOAD 4	22965	22.99
296	WARM LOAD 5	23049	23.28
298	WARM LOAD 6	23377	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	217	22.1	217	22.1	217	22.1
WARM LOAD TEMPERATURE	218	23.4	217	22.1	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	110	60.06	109	59.51	108	58.97
COMPENSATOR MOTOR CURRENT (AVERAGE)	107	58.42	105	57.33	105	57.33
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	180	15.47	179	15.39	178	15.30
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	158	-15.13	156	-15.06	156	-15.06
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	156	5.22	155	5.18	154	5.15
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1stCPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 17:16:44 SCAN NUMBER 999
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-transient Telemetry Load Bus High-Freq (5Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16299
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16172
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16303
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16170
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16294	158	SCENE DATA BP 19 CH 1	16303
16	CH 2	16181	160	CH 2	16173
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16292	166	SCENE DATA BP 20 CH 1	16307
24	CH 2	16165	168	CH 2	16184
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16294	174	SCENE DATA BP 21 CH 1	16315
32	CH 2	16172	176	CH 2	16180
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16294	182	SCENE DATA BP 22 CH 1	16307
40	CH 2	16172	184	CH 2	16175
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16293	190	SCENE DATA BP 23 CH 1	16316
48	CH 2	16177	192	CH 2	16183
50	REFLECTOR POSITION 6	5900	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16293	198	SCENE DATA BP 24 CH 1	16326
56	CH 2	16174	200	CH 2	16191
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16295	206	SCENE DATA BP 25 CH 1	16321
64	CH 2	16172	208	CH 2	16198
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16296	214	SCENE DATA BP 26 CH 1	16317
72	CH 2	16172	216	CH 2	16186
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16300	222	SCENE DATA BP 27 CH 1	16314
80	CH 2	16177	224	CH 2	16185
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16296	230	SCENE DATA BP 28 CH 1	16318
88	CH 2	16171	232	CH 2	16172
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16297	238	SCENE DATA BP 29 CH 1	16313
96	CH 2	16171	240	CH 2	16175
98	REFLECTOR POSITION 12	4987	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16302	246	SCENE DATA BP 30 CH 1	16321
104	CH 2	16171	248	CH 2	16190
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16304	254	COLD CAL DATA 1 CH 1	16324
112	CH 2	16174	256	CH 2	16195
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16326
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16199
118	SCENE DATA BP 14 CH 1	16303	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16170	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16277
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16152
126	SCENE DATA BP 15 CH 1	16309	310	WARM CAL DATA 2 CH 1	16277
128	CH 2	16182	312	CH 2	16155
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16301			
136	CH 2	16193			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17761	23.09
264	FEED HORN	18221	23.44
266	RF MUX	18544	23.94
268	MIXER/IF AMPLIFIER CHANNEL 1	18605	24.09
270	MIXER/IF AMPLIFIER CHANNEL 2	18682	24.80
272	LOCAL OSCILLATOR CHANNEL 1	18360	24.44
274	LOCAL OSCILLATOR CHANNEL 2	18958	25.07
276	COMPENSATION MOTOR	17970	23.70
278	SUB REFLECTOR	18114	22.85
280	DC/DC CONVERTER	19453	26.54
282	RF SHELF	18082	23.88
284	DETECTOR/PREAMP ASSEMBLY	18495	24.02
286	WARM LOAD CENTER	22986	23.24
288	WARM LOAD 1	23082	23.49
290	WARM LOAD 2	22977	23.16
292	WARM LOAD 3	22920	23.40
294	WARM LOAD 4	22981	23.02
296	WARM LOAD 5	23040	23.26
298	WARM LOAD 6	23369	23.02
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st OPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:53:06 SCAN NUMBER 858
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Pre-transient Telemetry Bus Lowfreq.

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16312
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16177
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16314
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16178
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16305	158	SCENE DATA BP 19 CH 1	16318
16	CH 2	16192	160	CH 2	16184
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6507	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16299	166	SCENE DATA BP 20 CH 1	16323
24	CH 2	16167	168	CH 2	16200
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3626
30	SCENE DATA BP 3 CH 1	16306	174	SCENE DATA BP 21 CH 1	16327
32	CH 2	16181	176	CH 2	16190
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16306	182	SCENE DATA BP 22 CH 1	16325
40	CH 2	16185	184	CH 2	16192
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16308	190	SCENE DATA BP 23 CH 1	16326
48	CH 2	16181	192	CH 2	16195
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16304	198	SCENE DATA BP 24 CH 1	16337
56	CH 2	16188	200	CH 2	16202
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16307	206	SCENE DATA BP 25 CH 1	16337
64	CH 2	16179	208	CH 2	16206
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16305	214	SCENE DATA BP 26 CH 1	16333
72	CH 2	16185	216	CH 2	16197
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16306	222	SCENE DATA BP 27 CH 1	16324
80	CH 2	16184	224	CH 2	16197
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16306	230	SCENE DATA BP 28 CH 1	16324
88	CH 2	16179	232	CH 2	16186
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16309	238	SCENE DATA BP 29 CH 1	16326
96	CH 2	16170	240	CH 2	16187
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16308	246	SCENE DATA BP 30 CH 1	16329
104	CH 2	16180	248	CH 2	16202
106	REFLECTOR POSITION 13	4838	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16309	254	COLD CAL DATA 1 CH 1	16339
112	CH 2	16181	256	CH 2	16209
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16338
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16210
118	SCENE DATA BP 14 CH 1	16311	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16181	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16290
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16172
126	SCENE DATA BP 15 CH 1	16315	310	WARM CAL DATA 2 CH 1	16290
128	CH 2	16194	312	CH 2	16168
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16318			
136	CH 2	16202			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17738	23.05
264	FEED HORN	18150	23.30
266	RF MUX	18433	23.73
268	MIXER/IF AMPLIFIER CHANNEL 1	18478	23.84
270	MIXER/IF AMPLIFIER CHANNEL 2	18533	24.51
272	LOCAL OSCILLATOR CHANNEL 1	18242	24.21
274	LOCAL OSCILLATOR CHANNEL 2	18787	24.74
276	COMPENSATION MOTOR	17899	23.57
278	SUB REFLECTOR	18084	22.79
280	DC/DC CONVERTER	19085	25.83
282	RF SHELF	17994	23.71
284	DETECTOR/PREAMP ASSEMBLY	18396	23.83
286	WARM LOAD CENTER	23006	23.28
288	WARM LOAD 1	23110	23.55
290	WARM LOAD 2	22985	23.18
292	WARM LOAD 3	22880	23.32
294	WARM LOAD 4	22950	22.96
296	WARM LOAD 5	23057	23.30
298	WARM LOAD 6	23388	23.05
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	109	59.51	108	58.97	107	58.42
COMPENSATOR MOTOR CURRENT (AVERAGE)	106	57.88	106	57.88	104	56.78
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	180	15.47	179	15.39	178	15.30
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	157	-15.10	156	-15.06	155	-15.03
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	156	5.22	154	5.15	153	5.12
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:01:55 SCAN NUMBER 332
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Pulse load High freq (5Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16305
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16176
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16311
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16179
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3925
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16305	158	SCENE DATA BP 19 CH 1	16314
16	CH 2	16189	160	CH 2	16184
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16300	166	SCENE DATA BP 20 CH 1	16314
24	CH 2	16169	168	CH 2	16192
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16299	174	SCENE DATA BP 21 CH 1	16324
32	CH 2	16179	176	CH 2	16190
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16297	182	SCENE DATA BP 22 CH 1	16322
40	CH 2	16188	184	CH 2	16189
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16304	190	SCENE DATA BP 23 CH 1	16318
48	CH 2	16188	192	CH 2	16192
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16299	198	SCENE DATA BP 24 CH 1	16329
56	CH 2	16187	200	CH 2	16197
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16311	206	SCENE DATA BP 25 CH 1	16333
64	CH 2	16184	208	CH 2	16204
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16307	214	SCENE DATA BP 26 CH 1	16334
72	CH 2	16184	216	CH 2	16193
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16304	222	SCENE DATA BP 27 CH 1	16322
80	CH 2	16182	224	CH 2	16198
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16307	230	SCENE DATA BP 28 CH 1	16321
88	CH 2	16183	232	CH 2	16186
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16310	238	SCENE DATA BP 29 CH 1	16321
96	CH 2	16185	240	CH 2	16183
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16304	246	SCENE DATA BP 30 CH 1	16331
104	CH 2	16181	248	CH 2	16201
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16308	254	COLD CAL DATA 1 CH 1	16341
112	CH 2	16181	256	CH 2	16214
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16336
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16213
118	SCENE DATA BP 14 CH 1	16307	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16175	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16284
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16161
126	SCENE DATA BP 15 CH 1	16315	310	WARM CAL DATA 2 CH 1	16284
128	CH 2	16186	312	CH 2	16165
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16313			
136	CH 2	16193			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17668	22.91
264	FEED HORN	18111	23.23
266	RF MUX	18358	23.58
268	MIXER/IF AMPLIFIER CHANNEL 1	18407	23.71
270	MIXER/IF AMPLIFIER CHANNEL 2	18468	24.39
272	LOCAL OSCILLATOR CHANNEL 1	18167	24.07
274	LOCAL OSCILLATOR CHANNEL 2	18732	24.64
276	COMPENSATION MOTOR	17800	23.38
278	SUB REFLECTOR	18065	22.76
280	DC/DC CONVERTER	19011	25.69
282	RF SHELF	17918	23.57
284	DETECTOR/PREAMP ASSEMBLY	18301	23.65
286	WARM LOAD CENTER	22895	23.06
288	WARM LOAD 1	23005	23.34
290	WARM LOAD 2	22892	22.99
292	WARM LOAD 3	22790	23.14
294	WARM LOAD 4	22841	22.75
296	WARM LOAD 5	22926	23.04
298	WARM LOAD 6	23274	22.83
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	104	56.78	105	57.33
COMPENSATOR MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	103	56.24
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	175	15.04	175	15.04	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	152	-14.93
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	150	5.02	151	5.05	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:00:13 SCAN NUMBER 319
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Pre-transient Pulse load High Freq. (5HZ)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16315
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16183
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16319
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16183
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16308	158	SCENE DATA BP 19 CH 1	16321
16	CH 2	16187	160	CH 2	16191
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16306	166	SCENE DATA BP 20 CH 1	16326
24	CH 2	16170	168	CH 2	16199
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16306	174	SCENE DATA BP 21 CH 1	16332
32	CH 2	16187	176	CH 2	16196
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16310	182	SCENE DATA BP 22 CH 1	16326
40	CH 2	16184	184	CH 2	16198
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16309	190	SCENE DATA BP 23 CH 1	16329
48	CH 2	16179	192	CH 2	16202
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16308	198	SCENE DATA BP 24 CH 1	16335
56	CH 2	16187	200	CH 2	16199
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16310	206	SCENE DATA BP 25 CH 1	16340
64	CH 2	16174	208	CH 2	16207
66	REFLECTOR POSITION 8	5596	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16313	214	SCENE DATA BP 26 CH 1	16336
72	CH 2	16186	216	CH 2	16201
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16308	222	SCENE DATA BP 27 CH 1	16333
80	CH 2	16178	224	CH 2	16197
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16312	230	SCENE DATA BP 28 CH 1	16328
88	CH 2	16181	232	CH 2	16188
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16312	238	SCENE DATA BP 29 CH 1	16329
96	CH 2	16181	240	CH 2	16187
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16312	246	SCENE DATA BP 30 CH 1	16339
104	CH 2	16181	248	CH 2	16206
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16314	254	COLD CAL DATA 1 CH 1	16341
112	CH 2	16184	256	CH 2	16215
114	REFLECTOR POSITION 14	4687	258	COLD CAL DATA 2 CH 1	16342
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16213
118	SCENE DATA BP 14 CH 1	16314	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16182	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16288
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16167
126	SCENE DATA BP 15 CH 1	16323	310	WARM CAL DATA 2 CH 1	16289
128	CH 2	16189	312	CH 2	16168
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16317			
136	CH 2	16196			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17658	22.90
264	FEED HORN	18102	23.21
266	RF MUX	18330	23.53
268	MIXER/IF AMPLIFIER CHANNEL 1	18359	23.62
270	MIXER/IF AMPLIFIER CHANNEL 2	18410	24.27
272	LOCAL OSCILLATOR CHANNEL 1	18127	23.99
274	LOCAL OSCILLATOR CHANNEL 2	18658	24.50
276	COMPENSATION MOTOR	17776	23.33
278	SUB REFLECTOR	18072	22.77
280	DC/DC CONVERTER	18890	25.46
282	RF SHELF	17898	23.53
284	DETECTOR/PREAMP ASSEMBLY	18278	23.61
286	WARM LOAD CENTER	22881	23.03
288	WARM LOAD 1	22983	23.30
290	WARM LOAD 2	22881	22.97
292	WARM LOAD 3	22800	23.16
294	WARM LOAD 4	22851	22.77
296	WARM LOAD 5	22924	23.03
298	WARM LOAD 6	23249	22.78
300	TEMP SENSOR REFERENCE VOLTAGE	25000	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	105	57.33	104	56.78
COMPENSATOR MOTOR CURRENT (AVERAGE)	102	55.69	103	56.24	102	55.69
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	175	15.04	175	15.04
SIGNAL PROCESSING -15 VDC	151	-15.02	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	152	-14.93
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	150	5.02	150	5.02	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:02:50 SCAN NUMBER 338
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-transient Pulse Load High Freq (5Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16305
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16173
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16309
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16177
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16295	158	SCENE DATA BP 19 CH 1	16309
16	CH 2	16183	160	CH 2	16184
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16293	166	SCENE DATA BP 20 CH 1	16313
24	CH 2	16168	168	CH 2	16193
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16296	174	SCENE DATA BP 21 CH 1	16320
32	CH 2	16176	176	CH 2	16185
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16297	182	SCENE DATA BP 22 CH 1	16318
40	CH 2	16180	184	CH 2	16185
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16300	190	SCENE DATA BP 23 CH 1	16319
48	CH 2	16177	192	CH 2	16188
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16297	198	SCENE DATA BP 24 CH 1	16330
56	CH 2	16175	200	CH 2	16196
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16298	206	SCENE DATA BP 25 CH 1	16328
64	CH 2	16174	208	CH 2	16202
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16298	214	SCENE DATA BP 26 CH 1	16322
72	CH 2	16172	216	CH 2	16193
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16301	222	SCENE DATA BP 27 CH 1	16320
80	CH 2	16176	224	CH 2	16195
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16300	230	SCENE DATA BP 28 CH 1	16324
88	CH 2	16170	232	CH 2	16180
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16301	238	SCENE DATA BP 29 CH 1	16317
96	CH 2	16173	240	CH 2	16184
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16299	246	SCENE DATA BP 30 CH 1	16322
104	CH 2	16177	248	CH 2	16195
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16297	254	COLD CAL DATA 1 CH 1	16331
112	CH 2	16178	256	CH 2	16208
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16334
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16208
118	SCENE DATA BP 14 CH 1	16303	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16169	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16278
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16156
126	SCENE DATA BP 15 CH 1	16310	310	WARM CAL DATA 2 CH 1	16280
128	CH 2	16184	312	CH 2	16163
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16305			
136	CH 2	16186			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17684	22.95
264	FEED HORN	18119	23.25
266	RF MUX	18371	23.61
268	MIXER/IF AMPLIFIER CHANNEL 1	18426	23.74
270	MIXER/IF AMPLIFIER CHANNEL 2	18490	24.43
272	LOCAL OSCILLATOR CHANNEL 1	18183	24.10
274	LOCAL OSCILLATOR CHANNEL 2	18759	24.69
276	COMPENSATION MOTOR	17797	23.37
278	SUB REFLECTOR	18065	22.76
280	DC/DC CONVERTER	19062	25.79
282	RF SHELF	17926	23.58
284	DETECTOR/PREAMP ASSEMBLY	18312	23.67
286	WARM LOAD CENTER	22893	23.06
288	WARM LOAD 1	22967	23.27
290	WARM LOAD 2	22864	22.94
292	WARM LOAD 3	22794	23.15
294	WARM LOAD 4	22861	22.79
296	WARM LOAD 5	22953	23.09
298	WARM LOAD 6	23275	22.83
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	105	57.33	105	57.33	105	57.33
COMPENSATOR MOTOR CURRENT (AVERAGE)	103	56.24	103	56.24	102	55.69
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	175	15.04	175	15.04	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	152	-14.93
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	150	5.02	150	5.02	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS41 1st CPT

S/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:59:22 SCAN NUMBER 312
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Pulse load ^{High}~~Low~~ Freq (5 Hz)
70

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16324
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16186
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16326
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16185
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16313	158	SCENE DATA BP 19 CH 1	16328
16	CH 2	16194	160	CH 2	16197
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16313	166	SCENE DATA BP 20 CH 1	16333
24	CH 2	16183	168	CH 2	16202
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16315	174	SCENE DATA BP 21 CH 1	16337
32	CH 2	16190	176	CH 2	16196
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3475
38	SCENE DATA BP 4 CH 1	16315	182	SCENE DATA BP 22 CH 1	16334
40	CH 2	16193	184	CH 2	16201
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16311	190	SCENE DATA BP 23 CH 1	16340
48	CH 2	16190	192	CH 2	16207
50	REFLECTOR POSITION 6	5900	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16313	198	SCENE DATA BP 24 CH 1	16351
56	CH 2	16189	200	CH 2	16206
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16319	206	SCENE DATA BP 25 CH 1	16347
64	CH 2	16188	208	CH 2	16212
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16315	214	SCENE DATA BP 26 CH 1	16345
72	CH 2	16190	216	CH 2	16205
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16321	222	SCENE DATA BP 27 CH 1	16339
80	CH 2	16186	224	CH 2	16205
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16315	230	SCENE DATA BP 28 CH 1	16341
88	CH 2	16191	232	CH 2	16194
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16319	238	SCENE DATA BP 29 CH 1	16338
96	CH 2	16185	240	CH 2	16191
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16318	246	SCENE DATA BP 30 CH 1	16349
104	CH 2	16195	248	CH 2	16208
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16321	254	COLD CAL DATA 1 CH 1	16353
112	CH 2	16193	256	CH 2	16224
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16353
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16224
118	SCENE DATA BP 14 CH 1	16321	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16189	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16299
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16174
126	SCENE DATA BP 15 CH 1	16325	310	WARM CAL DATA 2 CH 1	16298
128	CH 2	16200	312	CH 2	16174
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16326			
136	CH 2	16200			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17651	22.88
264	FEED HORN	18098	23.21
266	RF MUX	18315	23.50
268	MIXER/IF AMPLIFIER CHANNEL 1	18328	23.56
270	MIXER/IF AMPLIFIER CHANNEL 2	18374	24.21
272	LOCAL OSCILLATOR CHANNEL 1	18102	23.94
274	LOCAL OSCILLATOR CHANNEL 2	18609	24.40
276	COMPENSATION MOTOR	17772	23.33
278	SUB REFLECTOR	18082	22.79
280	DC/DC CONVERTER	18817	25.32
282	RF SHELF	17889	23.51
284	DETECTOR/PREAMP ASSEMBLY	18269	23.59
286	WARM LOAD CENTER	22872	23.01
288	WARM LOAD 1	22970	23.27
290	WARM LOAD 2	22885	22.98
292	WARM LOAD 3	22816	23.19
294	WARM LOAD 4	22845	22.76
296	WARM LOAD 5	22922	23.03
298	WARM LOAD 6	23271	22.82
300	TEMP SENSOR REFERENCE VOLTAGE	25000	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	105	57.33	104	56.78
COMPENSATOR MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	175	15.04	175	15.04	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	150	5.02	150	5.02	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/0 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:17:01 SCAN NUMBER 410
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-transient Pulse load High freq (6.67Hz)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16303
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16172
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16305
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16172
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16291	158	SCENE DATA BP 19 CH 1	16308
16	CH 2	16183	160	CH 2	16182
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16287	166	SCENE DATA BP 20 CH 1	16309
24	CH 2	16163	168	CH 2	16187
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16294	174	SCENE DATA BP 21 CH 1	16313
32	CH 2	16169	176	CH 2	16188
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16289	182	SCENE DATA BP 22 CH 1	16310
40	CH 2	16174	184	CH 2	16183
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16292	190	SCENE DATA BP 23 CH 1	16313
48	CH 2	16176	192	CH 2	16191
50	REFLECTOR POSITION 6	5900	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16294	198	SCENE DATA BP 24 CH 1	16324
56	CH 2	16174	200	CH 2	16190
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16298	206	SCENE DATA BP 25 CH 1	16321
64	CH 2	16171	208	CH 2	16196
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16293	214	SCENE DATA BP 26 CH 1	16324
72	CH 2	16174	216	CH 2	16187
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16296	222	SCENE DATA BP 27 CH 1	16314
80	CH 2	16172	224	CH 2	16190
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16293	230	SCENE DATA BP 28 CH 1	16313
88	CH 2	16174	232	CH 2	16179
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2410
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16297	238	SCENE DATA BP 29 CH 1	16310
96	CH 2	16164	240	CH 2	16180
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16299	246	SCENE DATA BP 30 CH 1	16321
104	CH 2	16174	248	CH 2	16199
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16297	254	COLD CAL DATA 1 CH 1	16328
112	CH 2	16175	256	CH 2	16209
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16333
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16207
118	SCENE DATA BP 14 CH 1	16295	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16175	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16276
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16161
126	SCENE DATA BP 15 CH 1	16303	310	WARM CAL DATA 2 CH 1	16272
128	CH 2	16185	312	CH 2	16161
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16302			
136	CH 2	16188			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17699	22.97
264	FEED HORN	18171	23.34
266	RF MUX	18448	23.75
268	MIXER/IF AMPLIFIER CHANNEL 1	18508	23.90
270	MIXER/IF AMPLIFIER CHANNEL 2	18585	24.61
272	LOCAL OSCILLATOR CHANNEL 1	18263	24.25
274	LOCAL OSCILLATOR CHANNEL 2	18860	24.89
276	COMPENSATION MOTOR	17859	23.49
278	SUB REFLECTOR	18093	22.81
280	DC/DC CONVERTER	19260	26.17
282	RF SHELF	17997	23.72
284	DETECTOR/PREAMP ASSEMBLY	18392	23.82
286	WARM LOAD CENTER	22893	23.06
288	WARM LOAD 1	22993	23.32
290	WARM LOAD 2	22897	23.00
292	WARM LOAD 3	22829	23.22
294	WARM LOAD 4	22882	22.83
296	WARM LOAD 5	22953	23.09
298	WARM LOAD 6	23269	22.82
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	103	56.24	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	101	55.15	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 411 kT CPT S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:13:33 SCAN NUMBER 384
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Pre-transient Pulse load High freq. (6.67 Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4231
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16310
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16187
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16317
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16190
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16308	158	SCENE DATA BP 19 CH 1	16318
16	CH 2	16189	160	CH 2	16193
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16296	166	SCENE DATA BP 20 CH 1	16320
24	CH 2	16174	168	CH 2	16199
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16306	174	SCENE DATA BP 21 CH 1	16334
32	CH 2	16188	176	CH 2	16202
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16304	182	SCENE DATA BP 22 CH 1	16326
40	CH 2	16187	184	CH 2	16199
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16309	190	SCENE DATA BP 23 CH 1	16329
48	CH 2	16188	192	CH 2	16201
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16302	198	SCENE DATA BP 24 CH 1	16338
56	CH 2	16189	200	CH 2	16205
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16312	206	SCENE DATA BP 25 CH 1	16341
64	CH 2	16180	208	CH 2	16214
66	REFLECTOR POSITION 8	5596	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5598	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16308	214	SCENE DATA BP 26 CH 1	16336
72	CH 2	16185	216	CH 2	16200
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16306	222	SCENE DATA BP 27 CH 1	16328
80	CH 2	16185	224	CH 2	16200
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16312	230	SCENE DATA BP 28 CH 1	16329
88	CH 2	16186	232	CH 2	16193
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2412
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16305	238	SCENE DATA BP 29 CH 1	16329
96	CH 2	16186	240	CH 2	16190
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16312	246	SCENE DATA BP 30 CH 1	16337
104	CH 2	16185	248	CH 2	16206
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	666
110	SCENE DATA BP 13 CH 1	16310	254	COLD CAL DATA 1 CH 1	16345
112	CH 2	16193	256	CH 2	16216
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16344
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16220
118	SCENE DATA BP 14 CH 1	16310	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16179	304	REFL WARM CAL 2ND LOOK	12651
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16288
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16172
126	SCENE DATA BP 15 CH 1	16318	310	WARM CAL DATA 2 CH 1	16282
128	CH 2	16194	312	CH 2	16169
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16319			
136	CH 2	16202			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17686	22.95
264	FEED HORN	18147	23.30
266	RF MUX	18399	23.66
268	MIXER/IF AMPLIFIER CHANNEL 1	18419	23.73
270	MIXER/IF AMPLIFIER CHANNEL 2	18483	24.41
272	LOCAL OSCILLATOR CHANNEL 1	18186	24.10
274	LOCAL OSCILLATOR CHANNEL 2	18730	24.64
276	COMPENSATION MOTOR	17828	23.43
278	SUB REFLECTOR	18094	22.81
280	DC/DC CONVERTER	19053	25.77
282	RF SHELF	17962	23.65
284	DETECTOR/PREAMP ASSEMBLY	18350	23.74
286	WARM LOAD CENTER	22888	23.05
288	WARM LOAD 1	22999	23.33
290	WARM LOAD 2	22893	23.00
292	WARM LOAD 3	22805	23.17
294	WARM LOAD 4	22837	22.74
296	WARM LOAD 5	22919	23.02
298	WARM LOAD 6	23279	22.84
300	TEMP SENSOR REFERENCE VOLTAGE	25000	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:11:55 SCAN NUMBER 371
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Pulse Load High freq (6.67HZ)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16332
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16203
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16334
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16198
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16326	158	SCENE DATA BP 19 CH 1	16337
16	CH 2	16209	160	CH 2	16207
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16327	166	SCENE DATA BP 20 CH 1	16338
24	CH 2	16199	168	CH 2	16219
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16327	174	SCENE DATA BP 21 CH 1	16344
32	CH 2	16201	176	CH 2	16214
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16328	182	SCENE DATA BP 22 CH 1	16341
40	CH 2	16203	184	CH 2	16211
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16326	190	SCENE DATA BP 23 CH 1	16348
48	CH 2	16202	192	CH 2	16214
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16322	198	SCENE DATA BP 24 CH 1	16354
56	CH 2	16202	200	CH 2	16218
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16327	206	SCENE DATA BP 25 CH 1	16353
64	CH 2	16199	208	CH 2	16227
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16332	214	SCENE DATA BP 26 CH 1	16348
72	CH 2	16201	216	CH 2	16219
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16329	222	SCENE DATA BP 27 CH 1	16346
80	CH 2	16199	224	CH 2	16216
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16328	230	SCENE DATA BP 28 CH 1	16348
88	CH 2	16198	232	CH 2	16207
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16325	238	SCENE DATA BP 29 CH 1	16342
96	CH 2	16205	240	CH 2	16207
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16328	246	SCENE DATA BP 30 CH 1	16352
104	CH 2	16202	248	CH 2	16225
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4840	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16327	254	COLD CAL DATA 1 CH 1	16363
112	CH 2	16207	256	CH 2	16232
114	REFLECTOR POSITION 14	4685	258	COLD CAL DATA 2 CH 1	16358
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16231
118	SCENE DATA BP 14 CH 1	16325	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16197	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16306
124	REFL POS 15 2ND LOOK	4535	308	CH 2	16186
126	SCENE DATA BP 15 CH 1	16338	310	WARM CAL DATA 2 CH 1	16304
128	CH 2	16212	312	CH 2	16184
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16337			
136	CH 2	16218			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17671	22.92
264	FEED HORN	18144	23.29
266	RF MUX	18383	23.63
268	MIXER/IF AMPLIFIER CHANNEL 1	18345	23.59
270	MIXER/IF AMPLIFIER CHANNEL 2	18402	24.26
272	LOCAL OSCILLATOR CHANNEL 1	18126	23.99
274	LOCAL OSCILLATOR CHANNEL 2	18614	24.41
276	COMPENSATION MOTOR	17810	23.40
278	SUB REFLECTOR	18087	22.80
280	DC/DC CONVERTER	18905	25.48
282	RF SHELF	17949	23.63
284	DETECTOR/PREAMP ASSEMBLY	18338	23.72
286	WARM LOAD CENTER	22901	23.07
288	WARM LOAD 1	23010	23.35
290	WARM LOAD 2	22899	23.01
292	WARM LOAD 3	22801	23.16
294	WARM LOAD 4	22835	22.74
296	WARM LOAD 5	22921	23.03
298	WARM LOAD 6	23279	22.84
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:15:54 SCAN NUMBER 401
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Pulse load High Freq (6.67HZ)

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16311
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16185
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16315
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16181
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16304	158	SCENE DATA BP 19 CH 1	16311
16	CH 2	16186	160	CH 2	16188
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16292	166	SCENE DATA BP 20 CH 1	16316
24	CH 2	16168	168	CH 2	16198
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16296	174	SCENE DATA BP 21 CH 1	16327
32	CH 2	16182	176	CH 2	16195
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16298	182	SCENE DATA BP 22 CH 1	16324
40	CH 2	16184	184	CH 2	16194
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16301	190	SCENE DATA BP 23 CH 1	16324
48	CH 2	16184	192	CH 2	16199
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16298	198	SCENE DATA BP 24 CH 1	16331
56	CH 2	16190	200	CH 2	16201
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16304	206	SCENE DATA BP 25 CH 1	16330
64	CH 2	16176	208	CH 2	16201
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16305	214	SCENE DATA BP 26 CH 1	16323
72	CH 2	16184	216	CH 2	16196
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16303	222	SCENE DATA BP 27 CH 1	16321
80	CH 2	16181	224	CH 2	16198
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16306	230	SCENE DATA BP 28 CH 1	16326
88	CH 2	16180	232	CH 2	16184
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16308	238	SCENE DATA BP 29 CH 1	16320
96	CH 2	16181	240	CH 2	16180
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2258
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16307	246	SCENE DATA BP 30 CH 1	16329
104	CH 2	16185	248	CH 2	16201
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16307	254	COLD CAL DATA 1 CH 1	16334
112	CH 2	16182	256	CH 2	16208
114	REFLECTOR POSITION 14	4687	258	COLD CAL DATA 2 CH 1	16335
116	REFL POS 14 2ND LOOK	4686	260	CH 2	16209
118	SCENE DATA BP 14 CH 1	16306	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16181	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16275
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16160
126	SCENE DATA BP 15 CH 1	16313	310	WARM CAL DATA 2 CH 1	16276
128	CH 2	16191	312	CH 2	16162
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16313			
136	CH 2	16201			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17699	22.97
264	FEED HORN	18159	23.32
266	RF MUX	18429	23.72
268	MIXER/IF AMPLIFIER CHANNEL 1	18480	23.85
270	MIXER/IF AMPLIFIER CHANNEL 2	18554	24.55
272	LOCAL OSCILLATOR CHANNEL 1	18238	24.20
274	LOCAL OSCILLATOR CHANNEL 2	18822	24.81
276	COMPENSATION MOTOR	17842	23.46
278	SUB REFLECTOR	18084	22.79
280	DC/DC CONVERTER	19195	26.04
282	RF SHELF	17984	23.69
284	DETECTOR/PREAMP ASSEMBLY	18377	23.80
286	WARM LOAD CENTER	22907	23.08
288	WARM LOAD 1	22981	23.29
290	WARM LOAD 2	22871	22.95
292	WARM LOAD 3	22809	23.18
294	WARM LOAD 4	22870	22.80
296	WARM LOAD 5	22939	23.06
298	WARM LOAD 6	23266	22.81
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	217	22.1	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	104	56.78	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	101	55.15	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	176	10.06	176	10.06	176	10.06

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:38:10 SCAN NUMBER 232
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

Pre Transient Pulse Load High Freq 2 Hz

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16312
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16186
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16320
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16188
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16309	158	SCENE DATA BP 19 CH 1	16325
16	CH 2	16197	160	CH 2	16192
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6507	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16302	166	SCENE DATA BP 20 CH 1	16325
24	CH 2	16176	168	CH 2	16202
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16308	174	SCENE DATA BP 21 CH 1	16335
32	CH 2	16186	176	CH 2	16204
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16308	182	SCENE DATA BP 22 CH 1	16327
40	CH 2	16190	184	CH 2	16199
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16309	190	SCENE DATA BP 23 CH 1	16333
48	CH 2	16187	192	CH 2	16207
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16305	198	SCENE DATA BP 24 CH 1	16347
56	CH 2	16192	200	CH 2	16214
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16309	206	SCENE DATA BP 25 CH 1	16341
64	CH 2	16186	208	CH 2	16215
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16308	214	SCENE DATA BP 26 CH 1	16338
72	CH 2	16186	216	CH 2	16210
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16310	222	SCENE DATA BP 27 CH 1	16334
80	CH 2	16187	224	CH 2	16202
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16313	230	SCENE DATA BP 28 CH 1	16333
88	CH 2	16186	232	CH 2	16191
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2410
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16309	238	SCENE DATA BP 29 CH 1	16302
96	CH 2	16182	240	CH 2	16187
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16310	246	SCENE DATA BP 30 CH 1	16341
104	CH 2	16187	248	CH 2	16209
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4838	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16311	254	COLD CAL DATA 1 CH 1	16342
112	CH 2	16185	256	CH 2	16222
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16340
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16217
118	SCENE DATA BP 14 CH 1	16306	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16184	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16290
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16167
126	SCENE DATA BP 15 CH 1	16320	310	WARM CAL DATA 2 CH 1	16287
128	CH 2	16195	312	CH 2	16170
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16316			
136	CH 2	16203			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17627	22.84
264	FEED HORN	18098	23.21
266	RF MUX	18333	23.53
268	MIXER/IF AMPLIFIER CHANNEL 1	18351	23.60
270	MIXER/IF AMPLIFIER CHANNEL 2	18408	24.27
272	LOCAL OSCILLATOR CHANNEL 1	18120	23.98
274	LOCAL OSCILLATOR CHANNEL 2	18651	24.48
276	COMPENSATION MOTOR	17761	23.31
278	SUB REFLECTOR	18061	22.75
280	DC/DC CONVERTER	18943	25.56
282	RF SHELF	17893	23.52
284	DETECTOR/PREAMP ASSEMBLY	18282	23.62
286	WARM LOAD CENTER	22842	22.95
288	WARM LOAD 1	22943	23.22
290	WARM LOAD 2	22848	22.91
292	WARM LOAD 3	22764	23.09
294	WARM LOAD 4	22812	22.69
296	WARM LOAD 5	22886	22.96
298	WARM LOAD 6	23216	22.71
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	217	22.1	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	99	54.05	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/6 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:39:10 SCAN NUMBER 240
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Pre Transient Pulseload - High Freq 2 Hz

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16313
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16186
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16312
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16185
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3927
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16307	158	SCENE DATA BP 19 CH 1	16317
16	CH 2	16198	160	CH 2	16190
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16308	166	SCENE DATA BP 20 CH 1	16318
24	CH 2	16178	168	CH 2	16202
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16308	174	SCENE DATA BP 21 CH 1	16331
32	CH 2	16189	176	CH 2	16197
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16307	182	SCENE DATA BP 22 CH 1	16327
40	CH 2	16187	184	CH 2	16196
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16305	190	SCENE DATA BP 23 CH 1	16330
48	CH 2	16183	192	CH 2	16199
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16301	198	SCENE DATA BP 24 CH 1	16339
56	CH 2	16191	200	CH 2	16207
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16309	206	SCENE DATA BP 25 CH 1	16341
64	CH 2	16184	208	CH 2	16208
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16308	214	SCENE DATA BP 26 CH 1	16335
72	CH 2	16190	216	CH 2	16202
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16305	222	SCENE DATA BP 27 CH 1	16326
80	CH 2	16188	224	CH 2	16202
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16306	230	SCENE DATA BP 28 CH 1	16325
88	CH 2	16181	232	CH 2	16190
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16304	238	SCENE DATA BP 29 CH 1	16328
96	CH 2	16183	240	CH 2	16186
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16311	246	SCENE DATA BP 30 CH 1	16333
104	CH 2	16183	248	CH 2	16201
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16309	254	COLD CAL DATA 1 CH 1	16336
112	CH 2	16185	256	CH 2	16212
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16335
116	REFL POS 14 2ND LOOK	4686	260	CH 2	16214
118	SCENE DATA BP 14 CH 1	16308	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16174	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16285
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16168
126	SCENE DATA BP 15 CH 1	16315	310	WARM CAL DATA 2 CH 1	16282
128	CH 2	16191	312	CH 2	16167
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16314			
136	CH 2	16199			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17636	22.85
264	FEED HORN	18098	23.21
266	RF MUX	18348	23.56
268	MIXER/IF AMPLIFIER CHANNEL 1	18383	23.66
270	MIXER/IF AMPLIFIER CHANNEL 2	18446	24.34
272	LOCAL OSCILLATOR CHANNEL 1	18148	24.03
274	LOCAL OSCILLATOR CHANNEL 2	18700	24.58
276	COMPENSATION MOTOR	17766	23.31
278	SUB REFLECTOR	18051	22.73
280	DC/DC CONVERTER	19018	25.70
282	RF SHELF	17902	23.54
284	DETECTOR/PREAMP ASSEMBLY	18293	23.64
286	WARM LOAD CENTER	22869	23.01
288	WARM LOAD 1	22954	23.24
290	WARM LOAD 2	22838	22.89
292	WARM LOAD 3	22765	23.09
294	WARM LOAD 4	22832	22.73
296	WARM LOAD 5	22899	22.99
298	WARM LOAD 6	23225	22.73
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	151	-15.02	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/8 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:41:44 SCAN NUMBER 259
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

#1 Post Transient Pulse load High Freq 2Hz

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16306
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16179
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16311
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16179
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16306	158	SCENE DATA BP 19 CH 1	16314
16	CH 2	16193	160	CH 2	16193
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16298	166	SCENE DATA BP 20 CH 1	16317
24	CH 2	16178	168	CH 2	16196
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3626
30	SCENE DATA BP 3 CH 1	16304	174	SCENE DATA BP 21 CH 1	16324
32	CH 2	16185	176	CH 2	16195
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16302	182	SCENE DATA BP 22 CH 1	16319
40	CH 2	16188	184	CH 2	16198
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16305	190	SCENE DATA BP 23 CH 1	16322
48	CH 2	16185	192	CH 2	16197
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16302	198	SCENE DATA BP 24 CH 1	16334
56	CH 2	16189	200	CH 2	16207
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16306	206	SCENE DATA BP 25 CH 1	16330
64	CH 2	16186	208	CH 2	16198
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16307	214	SCENE DATA BP 26 CH 1	16329
72	CH 2	16189	216	CH 2	16188
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16307	222	SCENE DATA BP 27 CH 1	16318
80	CH 2	16187	224	CH 2	16187
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16309	230	SCENE DATA BP 28 CH 1	16318
88	CH 2	16183	232	CH 2	16178
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16309	238	SCENE DATA BP 29 CH 1	16319
96	CH 2	16182	240	CH 2	16184
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16305	246	SCENE DATA BP 30 CH 1	16329
104	CH 2	16190	248	CH 2	16197
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16307	254	COLD CAL DATA 1 CH 1	16330
112	CH 2	16184	256	CH 2	16206
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16327
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16203
118	SCENE DATA BP 14 CH 1	16306	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16182	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16280
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16160
126	SCENE DATA BP 15 CH 1	16313	310	WARM CAL DATA 2 CH 1	16276
128	CH 2	16185	312	CH 2	16157
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4385			
134	SCENE DATA BP 16 CH 1	16311			
136	CH 2	16191			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17659	22.90
264	FEED HORN	18114	23.24
266	RF MUX	18386	23.64
268	MIXER/IF AMPLIFIER CHANNEL 1	18444	23.78
270	MIXER/IF AMPLIFIER CHANNEL 2	18517	24.48
272	LOCAL OSCILLATOR CHANNEL 1	18200	24.13
274	LOCAL OSCILLATOR CHANNEL 2	18790	24.75
276	COMPENSATION MOTOR	17793	23.37
278	SUB REFLECTOR	18055	22.74
280	DC/DC CONVERTER	19167	25.99
282	RF SHELF	17932	23.59
284	DETECTOR/PREAMP ASSEMBLY	18325	23.70
286	WARM LOAD CENTER	22858	22.99
288	WARM LOAD 1	22941	23.21
290	WARM LOAD 2	22827	22.86
292	WARM LOAD 3	22770	23.10
294	WARM LOAD 4	22844	22.75
296	WARM LOAD 5	22906	23.00
298	WARM LOAD 6	23242	22.77
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	101	55.15
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	151	-15.02	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

VARIABLE TARGET

NO.	DEG K	NO.	DEG K
601	14.00	607	20.00
602	15.00	608	21.00
603	16.00	609	22.00
604	17.00	610	23.00
605	18.00	611	24.00

FIXED TARGET

606	19.00	618	45.00
612	39.00	619	46.00
613	40.00	620	47.00
614	41.00	621	48.00
615	42.00	622	49.00
616	43.00		
617	44.00		

BASEPLATE

623	25.00	625	50.00
624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

FIXED TARGET SHROUD

NO.	DEG K	NO.	DEG K
532	32.00	533	33.00

VARIABLE TARGET SHROUD

515	7.00	516	8.00
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FIXED TARGET N2

502	30.00	503	31.00
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VARIABLE TARGET N2

507	5.00	508	6.00
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HEATER N2

505	1.00	506	2.00
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FIXED TARGET FLOW METER

504	34.00		
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VARIABLE TARGET FLOW METER

509	9.00		
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BASEPLATE HEATER N2

510	3.00	511	4.00
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BASEPLATE N2

512	36.00	513	37.00
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BASEPLATE FLOW METER

514	35.00		
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ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS 41 k+CPT

S/O 484113

MSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:42:29 SCAN NUMBER 265
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

#2 Post Transient Pulse Load High Freq 2#j

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16301
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16166
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16305
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16173
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16297	158	SCENE DATA BP 19 CH 1	16307
16	CH 2	16184	160	CH 2	16182
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16290	166	SCENE DATA BP 20 CH 1	16309
24	CH 2	16164	168	CH 2	16189
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16296	174	SCENE DATA BP 21 CH 1	16317
32	CH 2	16174	176	CH 2	16180
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16289	182	SCENE DATA BP 22 CH 1	16310
40	CH 2	16175	184	CH 2	16188
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16294	190	SCENE DATA BP 23 CH 1	16320
48	CH 2	16173	192	CH 2	16191
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16294	198	SCENE DATA BP 24 CH 1	16331
56	CH 2	16180	200	CH 2	16200
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16296	206	SCENE DATA BP 25 CH 1	16326
64	CH 2	16179	208	CH 2	16199
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16298	214	SCENE DATA BP 26 CH 1	16322
72	CH 2	16178	216	CH 2	16192
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16297	222	SCENE DATA BP 27 CH 1	16315
80	CH 2	16172	224	CH 2	16187
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16302	230	SCENE DATA BP 28 CH 1	16315
88	CH 2	16175	232	CH 2	16179
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2410
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16299	238	SCENE DATA BP 29 CH 1	16319
96	CH 2	16177	240	CH 2	16179
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16293	246	SCENE DATA BP 30 CH 1	16324
104	CH 2	16176	248	CH 2	16200
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16299	254	COLD CAL DATA 1 CH 1	16329
112	CH 2	16179	256	CH 2	16199
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16328
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16205
118	SCENE DATA BP 14 CH 1	16298	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16169	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16277
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16160
126	SCENE DATA BP 15 CH 1	16302	310	WARM CAL DATA 2 CH 1	16272
128	CH 2	16183	312	CH 2	16156
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16308			
136	CH 2	16191			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17657	22.89
264	FEED HORN	18121	23.25
266	RF MUX	18397	23.66
268	MIXER/IF AMPLIFIER CHANNEL 1	18460	23.81
270	MIXER/IF AMPLIFIER CHANNEL 2	18535	24.51
272	LOCAL OSCILLATOR CHANNEL 1	18216	24.16
274	LOCAL OSCILLATOR CHANNEL 2	18813	24.79
276	COMPENSATION MOTOR	17809	23.40
278	SUB REFLECTOR	18057	22.74
280	DC/DC CONVERTER	19211	26.07
282	RF SHELF	17943	23.61
284	DETECTOR/PREAMP ASSEMBLY	18336	23.72
286	WARM LOAD CENTER	22853	22.98
288	WARM LOAD 1	22933	23.20
290	WARM LOAD 2	22835	22.88
292	WARM LOAD 3	22772	23.11
294	WARM LOAD 4	22834	22.73
296	WARM LOAD 5	22905	23.00
298	WARM LOAD 6	23244	22.77
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	100	54.60	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS41

1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:20:03 SCAN NUMBER 146
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS
[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-transient Pulse load low freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16310
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16203
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16312
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16200
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16302	158	SCENE DATA BP 19 CH 1	16310
16	CH 2	16214	160	CH 2	16200
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3774
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16299	166	SCENE DATA BP 20 CH 1	16316
24	CH 2	16197	168	CH 2	16216
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16302	174	SCENE DATA BP 21 CH 1	16322
32	CH 2	16201	176	CH 2	16214
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16303	182	SCENE DATA BP 22 CH 1	16319
40	CH 2	16209	184	CH 2	16206
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16304	190	SCENE DATA BP 23 CH 1	16324
48	CH 2	16205	192	CH 2	16219
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16300	198	SCENE DATA BP 24 CH 1	16335
56	CH 2	16205	200	CH 2	16219
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16304	206	SCENE DATA BP 25 CH 1	16333
64	CH 2	16202	208	CH 2	16220
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16306	214	SCENE DATA BP 26 CH 1	16330
72	CH 2	16201	216	CH 2	16211
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16308	222	SCENE DATA BP 27 CH 1	16321
80	CH 2	16202	224	CH 2	16213
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16306	230	SCENE DATA BP 28 CH 1	16321
88	CH 2	16200	232	CH 2	16206
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2410
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16303	238	SCENE DATA BP 29 CH 1	16322
96	CH 2	16198	240	CH 2	16203
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16304	246	SCENE DATA BP 30 CH 1	16330
104	CH 2	16206	248	CH 2	16219
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16308	254	COLD CAL DATA 1 CH 1	16336
112	CH 2	16203	256	CH 2	16226
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16336
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16230
118	SCENE DATA BP 14 CH 1	16304	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16200	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16281
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16182
126	SCENE DATA BP 15 CH 1	16306	310	WARM CAL DATA 2 CH 1	16277
128	CH 2	16204	312	CH 2	16181
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16312			
136	CH 2	16212			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17589	22.76
264	FEED HORN	18038	23.09
266	RF MUX	18250	23.38
268	MIXER/IF AMPLIFIER CHANNEL 1	18294	23.49
270	MIXER/IF AMPLIFIER CHANNEL 2	18382	24.22
272	LOCAL OSCILLATOR CHANNEL 1	18052	23.85
274	LOCAL OSCILLATOR CHANNEL 2	18647	24.48
276	COMPENSATION MOTOR	17744	23.27
278	SUB REFLECTOR	18025	22.68
280	DC/DC CONVERTER	18850	25.38
282	RF SHELF	17797	23.34
284	DETECTOR/PREAMP ASSEMBLY	18165	23.39
286	WARM LOAD CENTER	22836	22.94
288	WARM LOAD 1	22934	23.20
290	WARM LOAD 2	22851	22.91
292	WARM LOAD 3	22760	23.08
294	WARM LOAD 4	22800	22.67
296	WARM LOAD 5	22875	22.94
298	WARM LOAD 6	23222	22.73
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	99	54.05
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:21:01 SCAN NUMBER 153
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-transient Pulse load low freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16305
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16190
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16309
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16193
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16296	158	SCENE DATA BP 19 CH 1	16312
16	CH 2	16199	160	CH 2	16203
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16292	166	SCENE DATA BP 20 CH 1	16315
24	CH 2	16191	168	CH 2	16214
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16293	174	SCENE DATA BP 21 CH 1	16322
32	CH 2	16196	176	CH 2	16212
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16296	182	SCENE DATA BP 22 CH 1	16321
40	CH 2	16202	184	CH 2	16213
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16301	190	SCENE DATA BP 23 CH 1	16325
48	CH 2	16193	192	CH 2	16216
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16294	198	SCENE DATA BP 24 CH 1	16335
56	CH 2	16197	200	CH 2	16216
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16301	206	SCENE DATA BP 25 CH 1	16334
64	CH 2	16193	208	CH 2	16222
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16299	214	SCENE DATA BP 26 CH 1	16327
72	CH 2	16199	216	CH 2	16215
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16293	222	SCENE DATA BP 27 CH 1	16316
80	CH 2	16197	224	CH 2	16217
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16298	230	SCENE DATA BP 28 CH 1	16318
88	CH 2	16195	232	CH 2	16202
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16300	238	SCENE DATA BP 29 CH 1	16319
96	CH 2	16192	240	CH 2	16202
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16301	246	SCENE DATA BP 30 CH 1	16330
104	CH 2	16200	248	CH 2	16222
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16304	254	COLD CAL DATA 1 CH 1	16330
112	CH 2	16199	256	CH 2	16227
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16332
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16224
118	SCENE DATA BP 14 CH 1	16300	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16196	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16281
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16185
126	SCENE DATA BP 15 CH 1	16308	310	WARM CAL DATA 2 CH 1	16280
128	CH 2	16204	312	CH 2	16179
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16311			
136	CH 2	16211			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17604	22.79
264	FEED HORN	18047	23.11
266	RF MUX	18269	23.41
268	MIXER/IF AMPLIFIER CHANNEL 1	18316	23.53
270	MIXER/IF AMPLIFIER CHANNEL 2	18403	24.26
272	LOCAL OSCILLATOR CHANNEL 1	18072	23.89
274	LOCAL OSCILLATOR CHANNEL 2	18676	24.53
276	COMPENSATION MOTOR	17754	23.29
278	SUB REFLECTOR	18019	22.67
280	DC/DC CONVERTER	18912	25.50
282	RF SHELF	17813	23.37
284	DETECTOR/PREAMP ASSEMBLY	18181	23.42
286	WARM LOAD CENTER	22836	22.94
288	WARM LOAD 1	22943	23.22
290	WARM LOAD 2	22830	22.87
292	WARM LOAD 3	22732	23.03
294	WARM LOAD 4	22784	22.63
296	WARM LOAD 5	22873	22.93
298	WARM LOAD 6	23238	22.76
300	TEMP SENSOR REFERENCE VOLTAGE	25000	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	99	54.05	99	54.05	99	54.05
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/0484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:16:06 SCAN NUMBER 116
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Pulseload Low Freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16320
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16207
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16324
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16210
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16313	158	SCENE DATA BP 19 CH 1	16323
16	CH 2	16213	160	CH 2	16208
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16307	166	SCENE DATA BP 20 CH 1	16330
24	CH 2	16197	168	CH 2	16222
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16308	174	SCENE DATA BP 21 CH 1	16336
32	CH 2	16208	176	CH 2	16220
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3475
38	SCENE DATA BP 4 CH 1	16311	182	SCENE DATA BP 22 CH 1	16334
40	CH 2	16208	184	CH 2	16218
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16319	190	SCENE DATA BP 23 CH 1	16338
48	CH 2	16210	192	CH 2	16226
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16311	198	SCENE DATA BP 24 CH 1	16353
56	CH 2	16219	200	CH 2	16230
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16314	206	SCENE DATA BP 25 CH 1	16348
64	CH 2	16204	208	CH 2	16232
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16315	214	SCENE DATA BP 26 CH 1	16343
72	CH 2	16215	216	CH 2	16223
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16310	222	SCENE DATA BP 27 CH 1	16338
80	CH 2	16207	224	CH 2	16228
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16311	230	SCENE DATA BP 28 CH 1	16339
88	CH 2	16206	232	CH 2	16212
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16317	238	SCENE DATA BP 29 CH 1	16355
96	CH 2	16206	240	CH 2	16214
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16313	246	SCENE DATA BP 30 CH 1	16344
104	CH 2	16208	248	CH 2	16231
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16317	254	COLD CAL DATA 1 CH 1	16344
112	CH 2	16211	256	CH 2	16235
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16349
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16236
118	SCENE DATA BP 14 CH 1	16319	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16206	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16295
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16193
126	SCENE DATA BP 15 CH 1	16323	310	WARM CAL DATA 2 CH 1	16295
128	CH 2	16220	312	CH 2	16196
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16318			
136	CH 2	16217			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17567	22.72
264	FEED HORN	17992	23.00
266	RF MUX	18163	23.21
268	MIXER/IF AMPLIFIER CHANNEL 1	18193	23.30
270	MIXER/IF AMPLIFIER CHANNEL 2	18259	23.99
272	LOCAL OSCILLATOR CHANNEL 1	17958	23.67
274	LOCAL OSCILLATOR CHANNEL 2	18509	24.21
276	COMPENSATION MOTOR	17694	23.18
278	SUB REFLECTOR	18014	22.66
280	DC/DC CONVERTER	18549	24.80
282	RF SHELF	17725	23.20
284	DETECTOR/PREAMP ASSEMBLY	18083	23.24
286	WARM LOAD CENTER	22842	22.95
288	WARM LOAD 1	22928	23.19
290	WARM LOAD 2	22839	22.89
292	WARM LOAD 3	22757	23.08
294	WARM LOAD 4	22789	22.64
296	WARM LOAD 5	22873	22.93
298	WARM LOAD 6	23214	22.71
300	TEMP SENSOR REFERENCE VOLTAGE	25000	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	99	54.05	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/0484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 14:17:33 SCAN NUMBER 127
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Pre-transient Pulse Load Low Freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16313
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16201
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16320
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16204
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16304	158	SCENE DATA BP 19 CH 1	16323
16	CH 2	16209	160	CH 2	16210
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3774
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16301	166	SCENE DATA BP 20 CH 1	16328
24	CH 2	16197	168	CH 2	16212
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16306	174	SCENE DATA BP 21 CH 1	16326
32	CH 2	16206	176	CH 2	16212
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16308	182	SCENE DATA BP 22 CH 1	16322
40	CH 2	16209	184	CH 2	16216
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16307	190	SCENE DATA BP 23 CH 1	16330
48	CH 2	16204	192	CH 2	16213
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16303	198	SCENE DATA BP 24 CH 1	16341
56	CH 2	16209	200	CH 2	16222
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16308	206	SCENE DATA BP 25 CH 1	16341
64	CH 2	16203	208	CH 2	16228
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16307	214	SCENE DATA BP 26 CH 1	16336
72	CH 2	16201	216	CH 2	16215
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16308	222	SCENE DATA BP 27 CH 1	16325
80	CH 2	16201	224	CH 2	16221
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16311	230	SCENE DATA BP 28 CH 1	16327
88	CH 2	16200	232	CH 2	16200
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16313	238	SCENE DATA BP 29 CH 1	16328
96	CH 2	16199	240	CH 2	16206
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16310	246	SCENE DATA BP 30 CH 1	16336
104	CH 2	16207	248	CH 2	16225
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16310	254	COLD CAL DATA 1 CH 1	16338
112	CH 2	16205	256	CH 2	16231
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16337
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16233
118	SCENE DATA BP 14 CH 1	16307	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16198	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16288
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16186
126	SCENE DATA BP 15 CH 1	16316	310	WARM CAL DATA 2 CH 1	16284
128	CH 2	16210	312	CH 2	16185
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16312			
136	CH 2	16217			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17579	22.74
264	FEED HORN	18009	23.04
266	RF MUX	18195	23.27
268	MIXER/IF AMPLIFIER CHANNEL 1	18232	23.37
270	MIXER/IF AMPLIFIER CHANNEL 2	18306	24.07
272	LOCAL OSCILLATOR CHANNEL 1	17994	23.74
274	LOCAL OSCILLATOR CHANNEL 2	18565	24.32
276	COMPENSATION MOTOR	17706	23.20
278	SUB REFLECTOR	18015	22.66
280	DC/DC CONVERTER	18668	25.03
282	RF SHELF	17751	23.25
284	DETECTOR/PREAMP ASSEMBLY	18111	23.29
286	WARM LOAD CENTER	22855	22.98
288	WARM LOAD 1	22942	23.22
290	WARM LOAD 2	22824	22.86
292	WARM LOAD 3	22752	23.07
294	WARM LOAD 4	22802	22.67
296	WARM LOAD 5	22872	22.93
298	WARM LOAD 6	23200	22.68
300	TEMP SENSOR REFERENCE VOLTAGE	25000	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	218	23.4	218	23.4	218	23.4
COMPENSATOR MOTOR TEMPERATURE	218	23.4	217	22.1	217	22.1
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	217	22.1	217	22.1	217	22.1

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	99	54.05
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	173	14.87	173	14.87	173	14.87
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	150	-14.87	150	-14.87	150	-14.87
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	148	4.95	148	4.95	148	4.95
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data For TDS 411 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:34:11 SCAN NUMBER 780
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient MAIN Load Low Freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16307
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16180
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16312
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16175
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16300	158	SCENE DATA BP 19 CH 1	16313
16	CH 2	16185	160	CH 2	16184
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16302	166	SCENE DATA BP 20 CH 1	16319
24	CH 2	16173	168	CH 2	16195
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16300	174	SCENE DATA BP 21 CH 1	16326
32	CH 2	16181	176	CH 2	16191
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16300	182	SCENE DATA BP 22 CH 1	16319
40	CH 2	16181	184	CH 2	16193
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16303	190	SCENE DATA BP 23 CH 1	16321
48	CH 2	16175	192	CH 2	16194
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16298	198	SCENE DATA BP 24 CH 1	16342
56	CH 2	16185	200	CH 2	16196
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16306	206	SCENE DATA BP 25 CH 1	16334
64	CH 2	16176	208	CH 2	16202
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16305	214	SCENE DATA BP 26 CH 1	16335
72	CH 2	16179	216	CH 2	16199
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16301	222	SCENE DATA BP 27 CH 1	16326
80	CH 2	16179	224	CH 2	16194
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16307	230	SCENE DATA BP 28 CH 1	16323
88	CH 2	16177	232	CH 2	16186
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16307	238	SCENE DATA BP 29 CH 1	16323
96	CH 2	16177	240	CH 2	16182
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16309	246	SCENE DATA BP 30 CH 1	16332
104	CH 2	16183	248	CH 2	16200
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4838	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16308	254	COLD CAL DATA 1 CH 1	16334
112	CH 2	16177	256	CH 2	16207
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16339
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16204
118	SCENE DATA BP 14 CH 1	16309	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16172	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16287
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16164
126	SCENE DATA BP 15 CH 1	16315	310	WARM CAL DATA 2 CH 1	16287
128	CH 2	16186	312	CH 2	16167
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16311			
136	CH 2	16192			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17751	23.07
264	FEED HORN	18186	23.37
266	RF MUX	18480	23.82
268	MIXER/IF AMPLIFIER CHANNEL 1	18532	23.95
270	MIXER/IF AMPLIFIER CHANNEL 2	18587	24.61
272	LOCAL OSCILLATOR CHANNEL 1	18294	24.31
274	LOCAL OSCILLATOR CHANNEL 2	18850	24.87
276	COMPENSATION MOTOR	17903	23.57
278	SUB REFLECTOR	18109	22.84
280	DC/DC CONVERTER	19193	26.04
282	RF SHELF	18043	23.80
284	DETECTOR/PREAMP ASSEMBLY	18443	23.92
286	WARM LOAD CENTER	22970	23.21
288	WARM LOAD 1	23075	23.48
290	WARM LOAD 2	22992	23.19
292	WARM LOAD 3	22890	23.34
294	WARM LOAD 4	22933	22.93
296	WARM LOAD 5	23027	23.24
298	WARM LOAD 6	23371	23.02
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	219	24.8	219	24.8	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	102	55.69	103	56.24	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	101	55.15	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	151	-15.02	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:36:31 SCAN NUMBER 798
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Main Bus Load Low Freq.

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16304
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16170
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16304
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16168
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16299	158	SCENE DATA BP 19 CH 1	16305
16	CH 2	16176	160	CH 2	16174
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16293	166	SCENE DATA BP 20 CH 1	16312
24	CH 2	16164	168	CH 2	16185
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16298	174	SCENE DATA BP 21 CH 1	16323
32	CH 2	16173	176	CH 2	16180
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3475
38	SCENE DATA BP 4 CH 1	16297	182	SCENE DATA BP 22 CH 1	16311
40	CH 2	16177	184	CH 2	16183
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16299	190	SCENE DATA BP 23 CH 1	16317
48	CH 2	16169	192	CH 2	16182
50	REFLECTOR POSITION 6	5898	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16300	198	SCENE DATA BP 24 CH 1	16324
56	CH 2	16174	200	CH 2	16190
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16299	206	SCENE DATA BP 25 CH 1	16326
64	CH 2	16170	208	CH 2	16199
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16299	214	SCENE DATA BP 26 CH 1	16320
72	CH 2	16178	216	CH 2	16185
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16301	222	SCENE DATA BP 27 CH 1	16314
80	CH 2	16174	224	CH 2	16185
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16298	230	SCENE DATA BP 28 CH 1	16316
88	CH 2	16173	232	CH 2	16177
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16301	238	SCENE DATA BP 29 CH 1	16321
96	CH 2	16173	240	CH 2	16175
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16301	246	SCENE DATA BP 30 CH 1	16323
104	CH 2	16175	248	CH 2	16191
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16305	254	COLD CAL DATA 1 CH 1	16324
112	CH 2	16173	256	CH 2	16200
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16331
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16198
118	SCENE DATA BP 14 CH 1	16304	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16172	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16282
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16162
126	SCENE DATA BP 15 CH 1	16309	310	WARM CAL DATA 2 CH 1	16281
128	CH 2	16182	312	CH 2	16159
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16307			
136	CH 2	16185			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17759	23.09
264	FEED HORN	18191	23.38
266	RF MUX	18511	23.88
268	MIXER/IF AMPLIFIER CHANNEL 1	18584	24.05
270	MIXER/IF AMPLIFIER CHANNEL 2	18650	24.73
272	LOCAL OSCILLATOR CHANNEL 1	18340	24.40
274	LOCAL OSCILLATOR CHANNEL 2	18935	25.03
276	COMPENSATION MOTOR	17927	23.62
278	SUB REFLECTOR	18102	22.83
280	DC/DC CONVERTER	19336	26.31
282	RF SHELF	18060	23.84
284	DETECTOR/PREAMP ASSEMBLY	18468	23.97
286	WARM LOAD CENTER	22976	23.22
288	WARM LOAD 1	23075	23.48
290	WARM LOAD 2	22987	23.18
292	WARM LOAD 3	22898	23.36
294	WARM LOAD 4	22941	22.94
296	WARM LOAD 5	23023	23.23
298	WARM LOAD 6	23360	23.00
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	219	24.8	219	24.8	219	24.8
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	103	56.24	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS41 1st CPT

S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:34:55 SCAN NUMBER 786
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Pre-transient Main Bus Load Low Freq.

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ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16303
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16171
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16310
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16173
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16303	158	SCENE DATA BP 19 CH 1	16309
16	CH 2	16186	160	CH 2	16179
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3774
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3777
22	SCENE DATA BP 2 CH 1	16294	166	SCENE DATA BP 20 CH 1	16319
24	CH 2	16170	168	CH 2	16187
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3626
30	SCENE DATA BP 3 CH 1	16300	174	SCENE DATA BP 21 CH 1	16323
32	CH 2	16175	176	CH 2	16182
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16300	182	SCENE DATA BP 22 CH 1	16318
40	CH 2	16177	184	CH 2	16188
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16303	190	SCENE DATA BP 23 CH 1	16323
48	CH 2	16176	192	CH 2	16188
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16296	198	SCENE DATA BP 24 CH 1	16331
56	CH 2	16180	200	CH 2	16196
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16305	206	SCENE DATA BP 25 CH 1	16330
64	CH 2	16173	208	CH 2	16203
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16300	214	SCENE DATA BP 26 CH 1	16325
72	CH 2	16174	216	CH 2	16191
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16302	222	SCENE DATA BP 27 CH 1	16319
80	CH 2	16170	224	CH 2	16192
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16298	230	SCENE DATA BP 28 CH 1	16322
88	CH 2	16177	232	CH 2	16180
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16302	238	SCENE DATA BP 29 CH 1	16322
96	CH 2	16173	240	CH 2	16182
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16302	246	SCENE DATA BP 30 CH 1	16328
104	CH 2	16174	248	CH 2	16194
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16305	254	COLD CAL DATA 1 CH 1	16333
112	CH 2	16173	256	CH 2	16200
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16332
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16204
118	SCENE DATA BP 14 CH 1	16307	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16171	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16287
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16167
126	SCENE DATA BP 15 CH 1	16314	310	WARM CAL DATA 2 CH 1	16284
128	CH 2	16185	312	CH 2	16164
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16305			
136	CH 2	16194			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17762	23.09
264	FEED HORN	18184	23.37
266	RF MUX	18491	23.84
268	MIXER/IF AMPLIFIER CHANNEL 1	18553	23.99
270	MIXER/IF AMPLIFIER CHANNEL 2	18612	24.66
272	LOCAL OSCILLATOR CHANNEL 1	18313	24.35
274	LOCAL OSCILLATOR CHANNEL 2	18885	24.93
276	COMPENSATION MOTOR	17905	23.58
278	SUB REFLECTOR	18109	22.84
280	DC/DC CONVERTER	19249	26.15
282	RF SHELF	18048	23.81
284	DETECTOR/PREAMP ASSEMBLY	18453	23.94
286	WARM LOAD CENTER	23028	23.32
288	WARM LOAD 1	23091	23.51
290	WARM LOAD 2	22972	23.15
292	WARM LOAD 3	22893	23.35
294	WARM LOAD 4	22959	22.98
296	WARM LOAD 5	23039	23.26
298	WARM LOAD 6	23361	23.00
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	219	24.8	219	24.8	219	24.8
SCANNER MOTOR TEMPERATURE	219	24.8	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	103	56.24	104	56.78
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	151	-15.02	151	-15.02	151	-15.02
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/c 48411

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:37:22 SCAN NUMBER 804
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Main Bus load Low Freq.

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LEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16298
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16169
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4079
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16305
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16166
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16294	158	SCENE DATA BP 19 CH 1	16309
16	CH 2	16179	160	CH 2	16170
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16287	166	SCENE DATA BP 20 CH 1	16306
24	CH 2	16160	168	CH 2	16182
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16290	174	SCENE DATA BP 21 CH 1	16314
32	CH 2	16170	176	CH 2	16182
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16295	182	SCENE DATA BP 22 CH 1	16311
40	CH 2	16176	184	CH 2	16180
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16295	190	SCENE DATA BP 23 CH 1	16312
48	CH 2	16166	192	CH 2	16181
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16289	198	SCENE DATA BP 24 CH 1	16324
56	CH 2	16169	200	CH 2	16186
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16298	206	SCENE DATA BP 25 CH 1	16324
64	CH 2	16166	208	CH 2	16188
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5598	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16296	214	SCENE DATA BP 26 CH 1	16319
72	CH 2	16168	216	CH 2	16181
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16292	222	SCENE DATA BP 27 CH 1	16313
80	CH 2	16167	224	CH 2	16183
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16297	230	SCENE DATA BP 28 CH 1	16317
88	CH 2	16168	232	CH 2	16171
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16298	238	SCENE DATA BP 29 CH 1	16313
96	CH 2	16171	240	CH 2	16175
98	REFLECTOR POSITION 12	4987	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16300	246	SCENE DATA BP 30 CH 1	16322
104	CH 2	16169	248	CH 2	16189
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16300	254	COLD CAL DATA 1 CH 1	16331
112	CH 2	16170	256	CH 2	16190
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16329
116	REFL POS 14 2ND LOOK	4686	260	CH 2	16193
118	SCENE DATA BP 14 CH 1	16301	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16165	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16281
124	REFL POS 15 2ND LOOK	4535	308	CH 2	16159
126	SCENE DATA BP 15 CH 1	16307	310	WARM CAL DATA 2 CH 1	16276
128	CH 2	16182	312	CH 2	16159
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16303			
136	CH 2	16188			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17766	23.10
264	FEED HORN	18196	23.39
266	RF MUX	18521	23.89
268	MIXER/IF AMPLIFIER CHANNEL 1	18598	24.07
270	MIXER/IF AMPLIFIER CHANNEL 2	18668	24.77
272	LOCAL OSCILLATOR CHANNEL 1	18351	24.42
274	LOCAL OSCILLATOR CHANNEL 2	18957	25.07
276	COMPENSATION MOTOR	17942	23.65
278	SUB REFLECTOR	18098	22.82
280	DC/DC CONVERTER	19378	26.39
282	RF SHELF	18067	23.85
284	DETECTOR/PREAMP ASSEMBLY	18476	23.98
286	WARM LOAD CENTER	22983	23.23
288	WARM LOAD 1	23103	23.53
290	WARM LOAD 2	23001	23.21
292	WARM LOAD 3	22893	23.35
294	WARM LOAD 4	22945	22.95
296	WARM LOAD 5	23041	23.27
298	WARM LOAD 6	23389	23.06
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	219	24.8
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	104	56.78	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS

549	38.00	554	55.00
542	10.00	556	57.00

Support Data for TDS41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:42:15 SCAN NUMBER 547
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Main Bus Load High Freq. (6.67Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16291
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16163
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16293
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16165
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16287	158	SCENE DATA BP 19 CH 1	16292
16	CH 2	16169	160	CH 2	16169
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16279	166	SCENE DATA BP 20 CH 1	16294
24	CH 2	16155	168	CH 2	16180
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16278	174	SCENE DATA BP 21 CH 1	16310
32	CH 2	16164	176	CH 2	16176
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3475
38	SCENE DATA BP 4 CH 1	16281	182	SCENE DATA BP 22 CH 1	16304
40	CH 2	16168	184	CH 2	16174
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16282	190	SCENE DATA BP 23 CH 1	16310
48	CH 2	16167	192	CH 2	16174
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16283	198	SCENE DATA BP 24 CH 1	16314
56	CH 2	16167	200	CH 2	16176
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16287	206	SCENE DATA BP 25 CH 1	16314
64	CH 2	16167	208	CH 2	16186
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16285	214	SCENE DATA BP 26 CH 1	16313
72	CH 2	16166	216	CH 2	16182
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16285	222	SCENE DATA BP 27 CH 1	16301
80	CH 2	16161	224	CH 2	16182
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16288	230	SCENE DATA BP 28 CH 1	16305
88	CH 2	16165	232	CH 2	16170
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16283	238	SCENE DATA BP 29 CH 1	16306
96	CH 2	16163	240	CH 2	16176
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16285	246	SCENE DATA BP 30 CH 1	16308
104	CH 2	16166	248	CH 2	16184
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16284	254	COLD CAL DATA 1 CH 1	16318
112	CH 2	16167	256	CH 2	16194
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16315
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16194
118	SCENE DATA BP 14 CH 1	16284	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16158	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16266
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16148
126	SCENE DATA BP 15 CH 1	16291	310	WARM CAL DATA 2 CH 1	16265
128	CH 2	16177	312	CH 2	16147
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16294			
136	CH 2	16185			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17750	23.07
264	FEED HORN	18201	23.40
266	RF MUX	18564	23.98
268	MIXER/IF AMPLIFIER CHANNEL 1	18654	24.18
270	MIXER/IF AMPLIFIER CHANNEL 2	18745	24.92
272	LOCAL OSCILLATOR CHANNEL 1	18401	24.52
274	LOCAL OSCILLATOR CHANNEL 2	19047	25.24
276	COMPENSATION MOTOR	17927	23.62
278	SUB REFLECTOR	18078	22.78
280	DC/DC CONVERTER	19612	26.84
282	RF SHELF	18094	23.90
284	DETECTOR/PREAMP ASSEMBLY	18512	24.05
286	WARM LOAD CENTER	22952	23.17
288	WARM LOAD 1	23026	23.38
290	WARM LOAD 2	22912	23.03
292	WARM LOAD 3	22839	23.24
294	WARM LOAD 4	22905	22.87
296	WARM LOAD 5	22992	23.17
298	WARM LOAD 6	23322	22.92
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	104	56.78	105	57.33
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	102	55.69	102	55.69
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	175	15.04	175	15.04	175	15.04
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	153	-14.97
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	150	5.02	150	5.02	151	5.05
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:39:32 SCAN NUMBER 527
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS
[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Pre-transient Main Bus Load High freq. (6.67Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16288
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16167
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16294
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16164
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16292	158	SCENE DATA BP 19 CH 1	16296
16	CH 2	16173	160	CH 2	16168
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16282	166	SCENE DATA BP 20 CH 1	16300
24	CH 2	16157	168	CH 2	16176
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16283	174	SCENE DATA BP 21 CH 1	16308
32	CH 2	16162	176	CH 2	16181
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16284	182	SCENE DATA BP 22 CH 1	16307
40	CH 2	16164	184	CH 2	16178
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16292	190	SCENE DATA BP 23 CH 1	16309
48	CH 2	16166	192	CH 2	16178
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16285	198	SCENE DATA BP 24 CH 1	16313
56	CH 2	16170	200	CH 2	16185
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16288	206	SCENE DATA BP 25 CH 1	16317
64	CH 2	16160	208	CH 2	16190
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16291	214	SCENE DATA BP 26 CH 1	16315
72	CH 2	16166	216	CH 2	16182
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16291	222	SCENE DATA BP 27 CH 1	16308
80	CH 2	16160	224	CH 2	16182
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16283	230	SCENE DATA BP 28 CH 1	16306
88	CH 2	16162	232	CH 2	16163
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16278	238	SCENE DATA BP 29 CH 1	16307
96	CH 2	16162	240	CH 2	16171
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16288	246	SCENE DATA BP 30 CH 1	16312
104	CH 2	16164	248	CH 2	16190
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16293	254	COLD CAL DATA 1 CH 1	16319
112	CH 2	16167	256	CH 2	16195
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16319
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16191
118	SCENE DATA BP 14 CH 1	16291	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16168	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16267
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16152
126	SCENE DATA BP 15 CH 1	16293	310	WARM CAL DATA 2 CH 1	16264
128	CH 2	16179	312	CH 2	16146
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16292			
136	CH 2	16184			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17739	23.05
264	FEED HORN	18183	23.37
266	RF MUX	18534	23.92
268	MIXER/IF AMPLIFIER CHANNEL 1	18620	24.12
270	MIXER/IF AMPLIFIER CHANNEL 2	18708	24.85
272	LOCAL OSCILLATOR CHANNEL 1	18369	24.46
274	LOCAL OSCILLATOR CHANNEL 2	19005	25.16
276	COMPENSATION MOTOR	17910	23.59
278	SUB REFLECTOR	18078	22.78
280	DC/DC CONVERTER	19516	26.66
282	RF SHELF	18064	23.84
284	DETECTOR/PREAMP ASSEMBLY	18481	23.99
286	WARM LOAD CENTER	22953	23.17
288	WARM LOAD 1	23026	23.38
290	WARM LOAD 2	22911	23.03
292	WARM LOAD 3	22822	23.21
294	WARM LOAD 4	22878	22.82
296	WARM LOAD 5	22980	23.15
298	WARM LOAD 6	23303	22.89
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	219	24.8	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	104	56.78	104	56.78
COMPENSATOR MOTOR CURRENT (AVERAGE)	102	55.69	102	55.69	102	55.69
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	175	15.04	175	15.04	175	15.04
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	152	-14.93
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	150	5.02	150	5.02	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:41:11 SCAN NUMBER 539
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Main Bus Load High Freq. (6.67Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16293
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16172
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16300
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16175
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16288	158	SCENE DATA BP 19 CH 1	16303
16	CH 2	16174	160	CH 2	16182
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16283	166	SCENE DATA BP 20 CH 1	16310
24	CH 2	16160	168	CH 2	16189
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16285	174	SCENE DATA BP 21 CH 1	16315
32	CH 2	16164	176	CH 2	16187
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16283	182	SCENE DATA BP 22 CH 1	16312
40	CH 2	16167	184	CH 2	16187
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16285	190	SCENE DATA BP 23 CH 1	16309
48	CH 2	16166	192	CH 2	16187
50	REFLECTOR POSITION 6	5898	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16280	198	SCENE DATA BP 24 CH 1	16317
56	CH 2	16170	200	CH 2	16191
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16287	206	SCENE DATA BP 25 CH 1	16321
64	CH 2	16165	208	CH 2	16196
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16285	214	SCENE DATA BP 26 CH 1	16317
72	CH 2	16168	216	CH 2	16187
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16286	222	SCENE DATA BP 27 CH 1	16306
80	CH 2	16166	224	CH 2	16182
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16287	230	SCENE DATA BP 28 CH 1	16306
88	CH 2	16162	232	CH 2	16174
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16291	238	SCENE DATA BP 29 CH 1	16307
96	CH 2	16164	240	CH 2	16173
98	REFLECTOR POSITION 12	4987	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16289	246	SCENE DATA BP 30 CH 1	16316
104	CH 2	16176	248	CH 2	16188
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16294	254	COLD CAL DATA 1 CH 1	16317
112	CH 2	16174	256	CH 2	16193
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16317
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16194
118	SCENE DATA BP 14 CH 1	16293	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16169	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16268
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16149
126	SCENE DATA BP 15 CH 1	16302	310	WARM CAL DATA 2 CH 1	16266
128	CH 2	16180	312	CH 2	16147
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16301			
136	CH 2	16186			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17741	23.05
264	FEED HORN	18192	23.38
266	RF MUX	18553	23.96
268	MIXER/IF AMPLIFIER CHANNEL 1	18640	24.15
270	MIXER/IF AMPLIFIER CHANNEL 2	18730	24.89
272	LOCAL OSCILLATOR CHANNEL 1	18388	24.49
274	LOCAL OSCILLATOR CHANNEL 2	19032	25.22
276	COMPENSATION MOTOR	17922	23.61
278	SUB REFLECTOR	18081	22.79
280	DC/DC CONVERTER	19574	26.77
282	RF SHELF	18082	23.88
284	DETECTOR/PREAMP ASSEMBLY	18500	24.03
286	WARM LOAD CENTER	22905	23.08
288	WARM LOAD 1	23031	23.39
290	WARM LOAD 2	22933	23.07
292	WARM LOAD 3	22829	23.22
294	WARM LOAD 4	22890	22.84
296	WARM LOAD 5	22973	23.13
298	WARM LOAD 6	23323	22.93
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	219	24.8	219	24.8	219	24.8
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	104	56.78	104	56.78
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	102	55.69	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	175	15.04	175	15.04	175	15.04
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	152	-14.93	152	-14.93	152	-14.93
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	151	5.05	151	5.05	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 S/O 484113 1st CPT

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 15:36:33 SCAN NUMBER 504
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT_TOUCHSCREEN_BUTTON 3

Pre-transient Main Bus Load High-Freq. (6.67HZ)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16294
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16169
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16296
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16168
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16288	158	SCENE DATA BP 19 CH 1	16306
16	CH 2	16171	160	CH 2	16173
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16285	166	SCENE DATA BP 20 CH 1	16305
24	CH 2	16157	168	CH 2	16181
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16286	174	SCENE DATA BP 21 CH 1	16310
32	CH 2	16168	176	CH 2	16180
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3471
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16284	182	SCENE DATA BP 22 CH 1	16303
40	CH 2	16168	184	CH 2	16174
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16288	190	SCENE DATA BP 23 CH 1	16308
48	CH 2	16164	192	CH 2	16185
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16285	198	SCENE DATA BP 24 CH 1	16319
56	CH 2	16163	200	CH 2	16180
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3021
62	SCENE DATA BP 7 CH 1	16297	206	SCENE DATA BP 25 CH 1	16319
64	CH 2	16163	208	CH 2	16187
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16291	214	SCENE DATA BP 26 CH 1	16310
72	CH 2	16161	216	CH 2	16180
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16291	222	SCENE DATA BP 27 CH 1	16309
80	CH 2	16163	224	CH 2	16184
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16286	230	SCENE DATA BP 28 CH 1	16311
88	CH 2	16161	232	CH 2	16168
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16288	238	SCENE DATA BP 29 CH 1	16309
96	CH 2	16164	240	CH 2	16173
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16290	246	SCENE DATA BP 30 CH 1	16317
104	CH 2	16163	248	CH 2	16190
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16291	254	COLD CAL DATA 1 CH 1	16330
112	CH 2	16165	256	CH 2	16204
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16325
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16201
118	SCENE DATA BP 14 CH 1	16293	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16162	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16278
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16151
126	SCENE DATA BP 15 CH 1	16299	310	WARM CAL DATA 2 CH 1	16270
128	CH 2	16176	312	CH 2	16155
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16295			
136	CH 2	16184			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17728	23.03
264	FEED HORN	18176	23.35
266	RF MUX	18499	23.85
268	MIXER/IF AMPLIFIER CHANNEL 1	18577	24.03
270	MIXER/IF AMPLIFIER CHANNEL 2	18656	24.75
272	LOCAL OSCILLATOR CHANNEL 1	18330	24.38
274	LOCAL OSCILLATOR CHANNEL 2	18945	25.05
276	COMPENSATION MOTOR	17887	23.54
278	SUB REFLECTOR	18079	22.79
280	DC/DC CONVERTER	19391	26.42
282	RF SHELF	18037	23.79
284	DETECTOR/PREAMP ASSEMBLY	18444	23.92
286	WARM LOAD CENTER	22933	23.13
288	WARM LOAD 1	23040	23.41
290	WARM LOAD 2	22925	23.06
292	WARM LOAD 3	22820	23.20
294	WARM LOAD 4	22876	22.82
296	WARM LOAD 5	22985	23.16
298	WARM LOAD 6	23325	22.93
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	106	57.88	105	57.33	105	57.33
COMPENSATOR MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	102	55.69
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	176	15.13	175	15.04	175	15.04
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	153	-14.97	153	-14.97	153	-14.97
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	151	5.05	151	5.05	150	5.02
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:05:00 SCAN NUMBER 645
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS
[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Post-transient MAIN load High freq (SHZ)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16302
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16165
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16298
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16166
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16287	158	SCENE DATA BP 19 CH 1	16307
16	CH 2	16168	160	CH 2	16170
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3774
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16285	166	SCENE DATA BP 20 CH 1	16305
24	CH 2	16156	168	CH 2	16181
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16290	174	SCENE DATA BP 21 CH 1	16314
32	CH 2	16172	176	CH 2	16181
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3475
38	SCENE DATA BP 4 CH 1	16294	182	SCENE DATA BP 22 CH 1	16307
40	CH 2	16166	184	CH 2	16178
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16289	190	SCENE DATA BP 23 CH 1	16312
48	CH 2	16167	192	CH 2	16177
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3171
54	SCENE DATA BP 6 CH 1	16287	198	SCENE DATA BP 24 CH 1	16321
56	CH 2	16169	200	CH 2	16182
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16294	206	SCENE DATA BP 25 CH 1	16324
64	CH 2	16163	208	CH 2	16191
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16292	214	SCENE DATA BP 26 CH 1	16315
72	CH 2	16170	216	CH 2	16186
74	REFLECTOR POSITION 9	5441	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16292	222	SCENE DATA BP 27 CH 1	16312
80	CH 2	16162	224	CH 2	16183
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16293	230	SCENE DATA BP 28 CH 1	16310
88	CH 2	16162	232	CH 2	16168
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16298	238	SCENE DATA BP 29 CH 1	16313
96	CH 2	16164	240	CH 2	16174
98	REFLECTOR POSITION 12	4989	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16294	246	SCENE DATA BP 30 CH 1	16324
104	CH 2	16168	248	CH 2	16191
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16295	254	COLD CAL DATA 1 CH 1	16330
112	CH 2	16165	256	CH 2	16198
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16326
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16205
118	SCENE DATA BP 14 CH 1	16295	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16165	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16276
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16152
126	SCENE DATA BP 15 CH 1	16302	310	WARM CAL DATA 2 CH 1	16274
128	CH 2	16179	312	CH 2	16155
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16303			
136	CH 2	16186			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17767	23.10
264	FEED HORN	18196	23.39
266	RF MUX	18524	23.90
268	MIXER/IF AMPLIFIER CHANNEL 1	18604	24.09
270	MIXER/IF AMPLIFIER CHANNEL 2	18680	24.79
272	LOCAL OSCILLATOR CHANNEL 1	18356	24.43
274	LOCAL OSCILLATOR CHANNEL 2	18969	25.09
276	COMPENSATION MOTOR	17931	23.63
278	SUB REFLECTOR	18090	22.81
280	DC/DC CONVERTER	19414	26.46
282	RF SHELF	18066	23.85
284	DETECTOR/PREAMP ASSEMBLY	18475	23.98
286	WARM LOAD CENTER	22971	23.21
288	WARM LOAD 1	23060	23.45
290	WARM LOAD 2	22936	23.08
292	WARM LOAD 3	22843	23.25
294	WARM LOAD 4	22908	22.88
296	WARM LOAD 5	23014	23.21
298	WARM LOAD 6	23342	22.96
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	219	24.8	219	24.8	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	103	56.24	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	101	55.15	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 411 1st CPT

S/o 48411

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:02:46 SCAN NUMBER 629
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
SELECT TOUCHSCREEN BUTTON 3

Pre-transient MAIN LOAD High freq. (5HZ)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16300
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16173
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16306
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16174
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16295	158	SCENE DATA BP 19 CH 1	16308
16	CH 2	16185	160	CH 2	16174
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16285	166	SCENE DATA BP 20 CH 1	16310
24	CH 2	16167	168	CH 2	16186
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16297	174	SCENE DATA BP 21 CH 1	16318
32	CH 2	16174	176	CH 2	16188
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16290	182	SCENE DATA BP 22 CH 1	16314
40	CH 2	16175	184	CH 2	16187
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16294	190	SCENE DATA BP 23 CH 1	16317
48	CH 2	16175	192	CH 2	16192
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16291	198	SCENE DATA BP 24 CH 1	16326
56	CH 2	16170	200	CH 2	16190
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16298	206	SCENE DATA BP 25 CH 1	16328
64	CH 2	16171	208	CH 2	16196
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5598	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16296	214	SCENE DATA BP 26 CH 1	16323
72	CH 2	16170	216	CH 2	16187
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16294	222	SCENE DATA BP 27 CH 1	16315
80	CH 2	16174	224	CH 2	16190
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16290	230	SCENE DATA BP 28 CH 1	16321
88	CH 2	16177	232	CH 2	16183
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16295	238	SCENE DATA BP 29 CH 1	16317
96	CH 2	16172	240	CH 2	16183
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16299	246	SCENE DATA BP 30 CH 1	16323
104	CH 2	16174	248	CH 2	16198
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16296	254	COLD CAL DATA 1 CH 1	16332
112	CH 2	16167	256	CH 2	16210
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16330
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16209
118	SCENE DATA BP 14 CH 1	16299	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16173	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16278
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16163
126	SCENE DATA BP 15 CH 1	16308	310	WARM CAL DATA 2 CH 1	16275
128	CH 2	16185	312	CH 2	16159
130	REFLECTOR POSITION 16	4382			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16303			
136	CH 2	16195			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17758	23.09
264	FEED HORN	18184	23.37
266	RF MUX	18495	23.84
268	MIXER/IF AMPLIFIER CHANNEL 1	18565	24.01
270	MIXER/IF AMPLIFIER CHANNEL 2	18634	24.70
272	LOCAL OSCILLATOR CHANNEL 1	18322	24.37
274	LOCAL OSCILLATOR CHANNEL 2	18911	24.98
276	COMPENSATION MOTOR	17909	23.59
278	SUB REFLECTOR	18095	22.82
280	DC/DC CONVERTER	19310	26.26
282	RF SHELF	18047	23.81
284	DETECTOR/PREAMP ASSEMBLY	18452	23.94
286	WARM LOAD CENTER	22980	23.23
288	WARM LOAD 1	23053	23.44
290	WARM LOAD 2	22938	23.08
292	WARM LOAD 3	22853	23.27
294	WARM LOAD 4	22924	22.91
296	WARM LOAD 5	23013	23.21
298	WARM LOAD 6	23337	22.95
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	103	56.24	103	56.24
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	101	55.15	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS41

1st CPT

S/o 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:04:28 SCAN NUMBER 641
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient MAIN Load High freq (5Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16305
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16172
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16307
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16175
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16295	158	SCENE DATA BP 19 CH 1	16313
16	CH 2	16176	160	CH 2	16186
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3777
22	SCENE DATA BP 2 CH 1	16292	166	SCENE DATA BP 20 CH 1	16316
24	CH 2	16162	168	CH 2	16194
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16293	174	SCENE DATA BP 21 CH 1	16323
32	CH 2	16176	176	CH 2	16194
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16288	182	SCENE DATA BP 22 CH 1	16322
40	CH 2	16175	184	CH 2	16187
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16294	190	SCENE DATA BP 23 CH 1	16323
48	CH 2	16175	192	CH 2	16192
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16292	198	SCENE DATA BP 24 CH 1	16326
56	CH 2	16172	200	CH 2	16197
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16297	206	SCENE DATA BP 25 CH 1	16328
64	CH 2	16167	208	CH 2	16201
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16302	214	SCENE DATA BP 26 CH 1	16324
72	CH 2	16172	216	CH 2	16194
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16295	222	SCENE DATA BP 27 CH 1	16319
80	CH 2	16172	224	CH 2	16189
82	REFLECTOR POSITION 10	5290	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2563
86	SCENE DATA BP 10 CH 1	16296	230	SCENE DATA BP 28 CH 1	16320
88	CH 2	16173	232	CH 2	16175
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16295	238	SCENE DATA BP 29 CH 1	16317
96	CH 2	16173	240	CH 2	16174
98	REFLECTOR POSITION 12	4987	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16294	246	SCENE DATA BP 30 CH 1	16322
104	CH 2	16171	248	CH 2	16194
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16301	254	COLD CAL DATA 1 CH 1	16327
112	CH 2	16177	256	CH 2	16195
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16327
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16204
118	SCENE DATA BP 14 CH 1	16298	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16169	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16275
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16157
126	SCENE DATA BP 15 CH 1	16307	310	WARM CAL DATA 2 CH 1	16276
128	CH 2	16185	312	CH 2	16156
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4383			
134	SCENE DATA BP 16 CH 1	16303			
136	CH 2	16192			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17752	23.08
264	FEED HORN	18192	23.38
266	RF MUX	18516	23.89
268	MIXER/IF AMPLIFIER CHANNEL 1	18592	24.06
270	MIXER/IF AMPLIFIER CHANNEL 2	18667	24.77
272	LOCAL OSCILLATOR CHANNEL 1	18346	24.41
274	LOCAL OSCILLATOR CHANNEL 2	18952	25.06
276	COMPENSATION MOTOR	17932	23.63
278	SUB REFLECTOR	18098	22.82
280	DC/DC CONVERTER	19382	26.40
282	RF SHELF	18059	23.83
284	DETECTOR/PREAMP ASSEMBLY	18467	23.97
286	WARM LOAD CENTER	22962	23.19
288	WARM LOAD 1	23047	23.42
290	WARM LOAD 2	22952	23.11
292	WARM LOAD 3	22886	23.33
294	WARM LOAD 4	22937	22.94
296	WARM LOAD 5	23008	23.20
298	WARM LOAD 6	23334	22.95
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	219	24.8	219	24.8	219	24.8
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	104	56.78	103	56.24	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	101	55.15	101	55.15	101	55.15
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484112

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:01:16 SCAN NUMBER 617
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Re-transient Man Load High freq (5HZ)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16307
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16177
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16313
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16175
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16303	158	SCENE DATA BP 19 CH 1	16316
16	CH 2	16190	160	CH 2	16182
18	REFLECTOR POSITION 2	6505	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16302	166	SCENE DATA BP 20 CH 1	16320
24	CH 2	16170	168	CH 2	16194
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3626
30	SCENE DATA BP 3 CH 1	16307	174	SCENE DATA BP 21 CH 1	16329
32	CH 2	16183	176	CH 2	16195
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16300	182	SCENE DATA BP 22 CH 1	16320
40	CH 2	16179	184	CH 2	16189
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16306	190	SCENE DATA BP 23 CH 1	16328
48	CH 2	16177	192	CH 2	16195
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16299	198	SCENE DATA BP 24 CH 1	16334
56	CH 2	16178	200	CH 2	16194
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16304	206	SCENE DATA BP 25 CH 1	16337
64	CH 2	16176	208	CH 2	16206
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16304	214	SCENE DATA BP 26 CH 1	16329
72	CH 2	16183	216	CH 2	16194
74	REFLECTOR POSITION 9	5441	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16301	222	SCENE DATA BP 27 CH 1	16323
80	CH 2	16170	224	CH 2	16193
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16306	230	SCENE DATA BP 28 CH 1	16327
88	CH 2	16175	232	CH 2	16185
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16306	238	SCENE DATA BP 29 CH 1	16324
96	CH 2	16175	240	CH 2	16184
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16303	246	SCENE DATA BP 30 CH 1	16329
104	CH 2	16182	248	CH 2	16204
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16304	254	COLD CAL DATA 1 CH 1	16342
112	CH 2	16180	256	CH 2	16208
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16340
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16213
118	SCENE DATA BP 14 CH 1	16304	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16175	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16289
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16163
126	SCENE DATA BP 15 CH 1	16314	310	WARM CAL DATA 2 CH 1	16285
128	CH 2	16189	312	CH 2	16164
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16311			
136	CH 2	16194			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17748	23.07
264	FEED HORN	18176	23.35
266	RF MUX	18474	23.80
268	MIXER/IF AMPLIFIER CHANNEL 1	18530	23.94
270	MIXER/IF AMPLIFIER CHANNEL 2	18590	24.62
272	LOCAL OSCILLATOR CHANNEL 1	18291	24.31
274	LOCAL OSCILLATOR CHANNEL 2	18855	24.88
276	COMPENSATION MOTOR	17900	23.57
278	SUB REFLECTOR	18105	22.83
280	DC/DC CONVERTER	19212	26.08
282	RF SHELF	18030	23.78
284	DETECTOR/PREAMP ASSEMBLY	18432	23.90
286	WARM LOAD CENTER	22960	23.19
288	WARM LOAD 1	23050	23.43
290	WARM LOAD 2	22952	23.11
292	WARM LOAD 3	22870	23.30
294	WARM LOAD 4	22930	22.92
296	WARM LOAD 5	23000	23.18
298	WARM LOAD 6	23320	22.92
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	103	56.24	102	55.69	102	55.69
COMPENSATOR MOTOR CURRENT (AVERAGE)	100	54.60	100	54.60	100	54.60
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	174	14.96	174	14.96	174	14.96
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	151	-14.90	151	-14.90	151	-14.90
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	149	4.98	149	4.98	149	4.98
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:16:57 SCAN NUMBER 714
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient Main Bus Load High freq (2 Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4232
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16302
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16173
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16305
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16171
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16298	158	SCENE DATA BP 19 CH 1	16306
16	CH 2	16188	160	CH 2	16178
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16288	166	SCENE DATA BP 20 CH 1	16308
24	CH 2	16166	168	CH 2	16185
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16296	174	SCENE DATA BP 21 CH 1	16318
32	CH 2	16178	176	CH 2	16187
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16293	182	SCENE DATA BP 22 CH 1	16313
40	CH 2	16177	184	CH 2	16183
42	REFLECTOR POSITION 5	6051	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16295	190	SCENE DATA BP 23 CH 1	16316
48	CH 2	16177	192	CH 2	16188
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16291	198	SCENE DATA BP 24 CH 1	16324
56	CH 2	16180	200	CH 2	16189
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3017
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16299	206	SCENE DATA BP 25 CH 1	16326
64	CH 2	16170	208	CH 2	16202
66	REFLECTOR POSITION 8	5594	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16295	214	SCENE DATA BP 26 CH 1	16323
72	CH 2	16176	216	CH 2	16189
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16297	222	SCENE DATA BP 27 CH 1	16315
80	CH 2	16169	224	CH 2	16190
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16293	230	SCENE DATA BP 28 CH 1	16319
88	CH 2	16172	232	CH 2	16178
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16297	238	SCENE DATA BP 29 CH 1	16314
96	CH 2	16173	240	CH 2	16175
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2261
102	SCENE DATA BP 12 CH 1	16297	246	SCENE DATA BP 30 CH 1	16323
104	CH 2	16174	248	CH 2	16194
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16298	254	COLD CAL DATA 1 CH 1	16325
112	CH 2	16172	256	CH 2	16203
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16324
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16199
118	SCENE DATA BP 14 CH 1	16298	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16170	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16277
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16164
126	SCENE DATA BP 15 CH 1	16306	310	WARM CAL DATA 2 CH 1	16280
128	CH 2	16186	312	CH 2	16163
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16300			
136	CH 2	16188			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17775	23.12
264	FEED HORN	18228	23.45
266	RF MUX	18564	23.98
268	MIXER/IF AMPLIFIER CHANNEL 1	18635	24.14
270	MIXER/IF AMPLIFIER CHANNEL 2	18710	24.85
272	LOCAL OSCILLATOR CHANNEL 1	18387	24.49
274	LOCAL OSCILLATOR CHANNEL 2	18989	25.13
276	COMPENSATION MOTOR	17949	23.66
278	SUB REFLECTOR	18104	22.83
280	DC/DC CONVERTER	19488	26.61
282	RF SHELF	18106	23.92
284	DETECTOR/PREAMP ASSEMBLY	18519	24.07
286	WARM LOAD CENTER	23003	23.27
288	WARM LOAD 1	23074	23.48
290	WARM LOAD 2	22949	23.11
292	WARM LOAD 3	22864	23.29
294	WARM LOAD 4	22929	22.92
296	WARM LOAD 5	23025	23.23
298	WARM LOAD 6	23356	22.99
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	219	24.8	219	24.8	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	107	58.42	106	57.88	108	58.97
COMPENSATOR MOTOR CURRENT (AVERAGE)	104	56.78	103	56.24	105	57.33
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	177	15.21	176	15.13	178	15.30
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	154	-15.00	154	-15.00	156	-15.06
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	152	5.08	152	5.08	154	5.15
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:14:27 SCAN NUMBER 695
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL

[1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Pre-transient MAIN Bus Load High Freq (2HZ)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16309
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16180
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16311
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16179
10	REFLECTOR POSITION 1	6657	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16303	158	SCENE DATA BP 19 CH 1	16317
16	CH 2	16189	160	CH 2	16185
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16299	166	SCENE DATA BP 20 CH 1	16320
24	CH 2	16168	168	CH 2	16191
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16299	174	SCENE DATA BP 21 CH 1	16325
32	CH 2	16179	176	CH 2	16192
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3472
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16296	182	SCENE DATA BP 22 CH 1	16317
40	CH 2	16179	184	CH 2	16191
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16304	190	SCENE DATA BP 23 CH 1	16322
48	CH 2	16181	192	CH 2	16188
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3169
52	REFL POS 6 2ND LOOK	5901	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16299	198	SCENE DATA BP 24 CH 1	16328
56	CH 2	16178	200	CH 2	16197
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5748	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16302	206	SCENE DATA BP 25 CH 1	16332
64	CH 2	16177	208	CH 2	16203
66	REFLECTOR POSITION 8	5594	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16305	214	SCENE DATA BP 26 CH 1	16331
72	CH 2	16181	216	CH 2	16194
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16304	222	SCENE DATA BP 27 CH 1	16318
80	CH 2	16171	224	CH 2	16195
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16305	230	SCENE DATA BP 28 CH 1	16323
88	CH 2	16179	232	CH 2	16183
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2412

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16299	238	SCENE DATA BP 29 CH 1	16323
96	CH 2	16176	240	CH 2	16185
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16303	246	SCENE DATA BP 30 CH 1	16333
104	CH 2	16176	248	CH 2	16203
106	REFLECTOR POSITION 13	4836	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	666
110	SCENE DATA BP 13 CH 1	16307	254	COLD CAL DATA 1 CH 1	16334
112	CH 2	16181	256	CH 2	16209
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16339
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16208
118	SCENE DATA BP 14 CH 1	16306	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16183	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16284
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16165
126	SCENE DATA BP 15 CH 1	16313	310	WARM CAL DATA 2 CH 1	16283
128	CH 2	16187	312	CH 2	16163
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16313			
136	CH 2	16200			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17770	23.11
264	FEED HORN	18228	23.45
266	RF MUX	18545	23.94
268	MIXER/IF AMPLIFIER CHANNEL 1	18577	24.03
270	MIXER/IF AMPLIFIER CHANNEL 2	18646	24.73
272	LOCAL OSCILLATOR CHANNEL 1	18337	24.39
274	LOCAL OSCILLATOR CHANNEL 2	18903	24.97
276	COMPENSATION MOTOR	17950	23.66
278	SUB REFLECTOR	18115	22.85
280	DC/DC CONVERTER	19359	26.36
282	RF SHELF	18091	23.90
284	DETECTOR/PREAMP ASSEMBLY	18502	24.03
286	WARM LOAD CENTER	22978	23.22
288	WARM LOAD 1	23081	23.49
290	WARM LOAD 2	22954	23.12
292	WARM LOAD 3	22857	23.28
294	WARM LOAD 4	22909	22.88
296	WARM LOAD 5	23010	23.20
298	WARM LOAD 6	23374	23.03
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	108	58.97	108	58.97	109	59.51
COMPENSATOR MOTOR CURRENT (AVERAGE)	106	57.88	105	57.33	106	57.88
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	179	15.39	178	15.30	179	15.39
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	156	-15.06	155	-15.03	156	-15.06
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	154	5.15	153	5.12	154	5.15
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		

ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41

1st CPT

S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:16:28 SCAN NUMBER 711
[5] DIGITAL A DATA ELEMENT 0000
[6] DIGITAL B DATA ELEMENT 00
[7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
[10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
[11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
[12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
[13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
[14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON

SCREEN ONLY [2] PRINT [3] FULL [1] RETURN

SELECT TOUCHSCREEN BUTTON 3

Post-transient MAIN Bus Load High freq (2Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16305
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16173
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16306
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16176
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6655	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16300	158	SCENE DATA BP 19 CH 1	16301
16	CH 2	16185	160	CH 2	16174
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3775
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3777
22	SCENE DATA BP 2 CH 1	16294	166	SCENE DATA BP 20 CH 1	16314
24	CH 2	16169	168	CH 2	16189
26	REFLECTOR POSITION 3	6352	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16299	174	SCENE DATA BP 21 CH 1	16316
32	CH 2	16180	176	CH 2	16187
34	REFLECTOR POSITION 4	6202	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16300	182	SCENE DATA BP 22 CH 1	16313
40	CH 2	16175	184	CH 2	16186
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3321
44	REFL POS 5 2ND LOOK	6053	188	REFL POS 23 2ND LOOK	3323
46	SCENE DATA BP 5 CH 1	16302	190	SCENE DATA BP 23 CH 1	16318
48	CH 2	16175	192	CH 2	16188
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16294	198	SCENE DATA BP 24 CH 1	16325
56	CH 2	16178	200	CH 2	16191
58	REFLECTOR POSITION 7	5747	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5748	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16305	206	SCENE DATA BP 25 CH 1	16328
64	CH 2	16175	208	CH 2	16196
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5597	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16300	214	SCENE DATA BP 26 CH 1	16326
72	CH 2	16174	216	CH 2	16194
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16294	222	SCENE DATA BP 27 CH 1	16319
80	CH 2	16177	224	CH 2	16192
82	REFLECTOR POSITION 10	5291	226	REFLECTOR POSITION 28	2560
84	REFL POS 10 2ND LOOK	5293	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16302	230	SCENE DATA BP 28 CH 1	16320
88	CH 2	16177	232	CH 2	16176
90	REFLECTOR POSITION 11	5140	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16302	238	SCENE DATA BP 29 CH 1	16315
96	CH 2	16177	240	CH 2	16181
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4990	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16304	246	SCENE DATA BP 30 CH 1	16327
104	CH 2	16177	248	CH 2	16197
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16302	254	COLD CAL DATA 1 CH 1	16327
112	CH 2	16179	256	CH 2	16205
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16328
116	REFL POS 14 2ND LOOK	4688	260	CH 2	16208
118	SCENE DATA BP 14 CH 1	16301	302	REFLECTOR WARM CAL POS	12650
120	CH 2	16173	304	REFL WARM CAL 2ND LOOK	12650
122	REFLECTOR POSITION 15	4534	306	WARM CAL DATA 1 CH 1	16276
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16161
126	SCENE DATA BP 15 CH 1	16307	310	WARM CAL DATA 2 CH 1	16276
128	CH 2	16187	312	CH 2	16164
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16308			
136	CH 2	16193			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17776	23.12
264	FEED HORN	18226	23.45
266	RF MUX	18561	23.97
268	MIXER/IF AMPLIFIER CHANNEL 1	18627	24.13
270	MIXER/IF AMPLIFIER CHANNEL 2	18704	24.84
272	LOCAL OSCILLATOR CHANNEL 1	18382	24.48
274	LOCAL OSCILLATOR CHANNEL 2	18980	25.12
276	COMPENSATION MOTOR	17959	23.68
278	SUB REFLECTOR	18113	22.85
280	DC/DC CONVERTER	19471	26.57
282	RF SHELF	18104	23.92
284	DETECTOR/PREAMP ASSEMBLY	18518	24.06
286	WARM LOAD CENTER	22970	23.21
288	WARM LOAD 1	23088	23.50
290	WARM LOAD 2	22964	23.14
292	WARM LOAD 3	22863	23.29
294	WARM LOAD 4	22916	22.90
296	WARM LOAD 5	23009	23.20
298	WARM LOAD 6	23363	23.00
300	TEMP SENSOR REFERENCE VOLTAGE	25002	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	219	24.8	219	24.8	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	107	58.42	106	57.88	108	58.97
COMPENSATOR MOTOR CURRENT (AVERAGE)	104	56.78	104	56.78	106	57.88
SIGNAL PROCESSING +15 VDC	173	15.00	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	177	15.21	177	15.21	179	15.39
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	155	-15.03	154	-15.00	156	-15.06
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	153	5.12	152	5.08	154	5.15
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
SEPLATE HEATER N2	510	3.00	511	4.00
SEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00

Support Data for TDS 41 1st CPT S/O 484113

AMSU A2-18 A2.EXE FULL SCAN MODE 13-AUG-98 16:13:08 SCAN NUMBER 685
 [5] DIGITAL A DATA ELEMENT 0000
 [6] DIGITAL B DATA ELEMENT 00
 [7] ANALOG DATA ELEMENT 00

COMMANDS

[9] MODULE POWER = CONNECT ANTENNA IN COLD CAL POSIT = NO [15]
 [10] SURVIVAL HEATER POWER = OFF ANTENNA IN NADIR POSITION = NO [16]
 [11] MODULE TOTALLY OFF = ON ANTENNA IN FULL SCAN MODE = YES [17]
 [12] SCANNER A2 POWER = ON COLD CAL POSITION MSB = ZERO [18]
 [13] COMPENSATOR MOTOR POWER = ON COLD CAL POSITION LSB = ZERO [19]
 [14] ANTENNA IN WARM CAL POSIT = NO

POWER [4] ON
 SCREEN ONLY [2] PRINT [3] FULL [1] RETURN
 SELECT_TOUCHSCREEN_BUTTON

Pre-transient Main Bus Load High Freq. (2 Hz)

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
1	SYNC SEQUENCE BYTE 1	11111111	138	REFLECTOR POSITION 17	4229
2	SYNC SEQUENCE BYTE 2	11111111	140	REFL POS 17 2ND LOOK	4233
3	SYNC SEQUENCE BYTE 3	11111111	142	SCENE DATA BP 17 CH 1	16322
4	UNIT ID AND SERIAL NO	00010010	144	CH 2	16190
5	DIGITAL B DATA BYTE 1	00000010	146	REFLECTOR POSITION 18	4078
6	DIGITAL B DATA BYTE 2	00000110	148	REFL POS 18 2ND LOOK	4081
7	DIGITAL B DATA BYTE 3	00000000	150	SCENE DATA BP 18 CH 1	16323
8	DIGITAL B DATA BYTE 4	00000000	152	CH 2	16191
10	REFLECTOR POSITION 1	6656	154	REFLECTOR POSITION 19	3926
12	REFL POS 1 2ND LOOK	6656	156	REFL POS 19 2ND LOOK	3929
14	SCENE DATA BP 1 CH 1	16317	158	SCENE DATA BP 19 CH 1	16325
16	CH 2	16193	160	CH 2	16197
18	REFLECTOR POSITION 2	6506	162	REFLECTOR POSITION 20	3776
20	REFL POS 2 2ND LOOK	6508	164	REFL POS 20 2ND LOOK	3778
22	SCENE DATA BP 2 CH 1	16315	166	SCENE DATA BP 20 CH 1	16337
24	CH 2	16182	168	CH 2	16199
26	REFLECTOR POSITION 3	6353	170	REFLECTOR POSITION 21	3623
28	REFL POS 3 2ND LOOK	6356	172	REFL POS 21 2ND LOOK	3627
30	SCENE DATA BP 3 CH 1	16317	174	SCENE DATA BP 21 CH 1	16336
32	CH 2	16194	176	CH 2	16202
34	REFLECTOR POSITION 4	6201	178	REFLECTOR POSITION 22	3473
36	REFL POS 4 2ND LOOK	6205	180	REFL POS 22 2ND LOOK	3476
38	SCENE DATA BP 4 CH 1	16313	182	SCENE DATA BP 22 CH 1	16335
40	CH 2	16194	184	CH 2	16205
42	REFLECTOR POSITION 5	6052	186	REFLECTOR POSITION 23	3322
44	REFL POS 5 2ND LOOK	6052	188	REFL POS 23 2ND LOOK	3324
46	SCENE DATA BP 5 CH 1	16312	190	SCENE DATA BP 23 CH 1	16333
48	CH 2	16195	192	CH 2	16204
50	REFLECTOR POSITION 6	5899	194	REFLECTOR POSITION 24	3168
52	REFL POS 6 2ND LOOK	5900	196	REFL POS 24 2ND LOOK	3172
54	SCENE DATA BP 6 CH 1	16312	198	SCENE DATA BP 24 CH 1	16349
56	CH 2	16193	200	CH 2	16212
58	REFLECTOR POSITION 7	5748	202	REFLECTOR POSITION 25	3018
60	REFL POS 7 2ND LOOK	5749	204	REFL POS 25 2ND LOOK	3020
62	SCENE DATA BP 7 CH 1	16318	206	SCENE DATA BP 25 CH 1	16346
64	CH 2	16192	208	CH 2	16208
66	REFLECTOR POSITION 8	5595	210	REFLECTOR POSITION 26	2865
68	REFL POS 8 2ND LOOK	5598	212	REFL POS 26 2ND LOOK	2868
70	SCENE DATA BP 8 CH 1	16318	214	SCENE DATA BP 26 CH 1	16347
72	CH 2	16193	216	CH 2	16203
74	REFLECTOR POSITION 9	5442	218	REFLECTOR POSITION 27	2712
76	REFL POS 9 2ND LOOK	5445	220	REFL POS 27 2ND LOOK	2716
78	SCENE DATA BP 9 CH 1	16315	222	SCENE DATA BP 27 CH 1	16336
80	CH 2	16189	224	CH 2	16212
82	REFLECTOR POSITION 10	5292	226	REFLECTOR POSITION 28	2561
84	REFL POS 10 2ND LOOK	5294	228	REFL POS 28 2ND LOOK	2564
86	SCENE DATA BP 10 CH 1	16319	230	SCENE DATA BP 28 CH 1	16342
88	CH 2	16190	232	CH 2	16191
90	REFLECTOR POSITION 11	5141	234	REFLECTOR POSITION 29	2411
92	REFL POS 11 2ND LOOK	5142	236	REFL POS 29 2ND LOOK	2413

ELEMENT	DESCRIPTION	VALUE	ELEMENT	DESCRIPTION	VALUE
94	SCENE DATA BP 11 CH 1	16322	238	SCENE DATA BP 29 CH 1	16335
96	CH 2	16192	240	CH 2	16198
98	REFLECTOR POSITION 12	4988	242	REFLECTOR POSITION 30	2257
100	REFL POS 12 2ND LOOK	4991	244	REFL POS 30 2ND LOOK	2260
102	SCENE DATA BP 12 CH 1	16315	246	SCENE DATA BP 30 CH 1	16344
104	CH 2	16189	248	CH 2	16216
106	REFLECTOR POSITION 13	4837	250	REFLECTOR COLD CAL POS	665
108	REFL POS 13 2ND LOOK	4839	252	REFL COLD CAL 2ND LOOK	665
110	SCENE DATA BP 13 CH 1	16323	254	COLD CAL DATA 1 CH 1	16351
112	CH 2	16196	256	CH 2	16217
114	REFLECTOR POSITION 14	4686	258	COLD CAL DATA 2 CH 1	16347
116	REFL POS 14 2ND LOOK	4687	260	CH 2	16217
118	SCENE DATA BP 14 CH 1	16324	302	REFLECTOR WARM CAL POS	12651
120	CH 2	16188	304	REFL WARM CAL 2ND LOOK	12651
122	REFLECTOR POSITION 15	4533	306	WARM CAL DATA 1 CH 1	16296
124	REFL POS 15 2ND LOOK	4536	308	CH 2	16181
126	SCENE DATA BP 15 CH 1	16326	310	WARM CAL DATA 2 CH 1	16294
128	CH 2	16206	312	CH 2	16176
130	REFLECTOR POSITION 16	4383			
132	REFL POS 16 2ND LOOK	4384			
134	SCENE DATA BP 16 CH 1	16326			
136	CH 2	16210			

ELEMENT	DESCRIPTION	VALUE	TEMPERATURE DEG C
262	SCAN MOTOR	17765	23.10
264	FEED HORN	18233	23.46
266	RF MUX	18544	23.94
268	MIXER/IF AMPLIFIER CHANNEL 1	18529	23.94
270	MIXER/IF AMPLIFIER CHANNEL 2	18597	24.63
272	LOCAL OSCILLATOR CHANNEL 1	18300	24.32
274	LOCAL OSCILLATOR CHANNEL 2	18827	24.82
276	COMPENSATION MOTOR	17939	23.64
278	SUB REFLECTOR	18116	22.86
280	DC/DC CONVERTER	19269	26.18
282	RF SHELF	18087	23.89
284	DETECTOR/PREAMP ASSEMBLY	18501	24.03
286	WARM LOAD CENTER	22973	23.21
288	WARM LOAD 1	23093	23.51
290	WARM LOAD 2	22969	23.15
292	WARM LOAD 3	22866	23.29
294	WARM LOAD 4	22921	22.91
296	WARM LOAD 5	23017	23.22
298	WARM LOAD 6	23366	23.01
300	TEMP SENSOR REFERENCE VOLTAGE	25001	

DESCRIPTION	STATUS	STATUS	STATUS
SCANNER POWER	ON	ON	ON
COMPENSATOR MOTOR POWER	ON	ON	ON
ANTENNA IN WARM CAL POSITION MODE	NO	NO	NO
ANTENNA IN COLD CAL POSITION MODE	NO	NO	NO
ANTENNA IN NADIR POSITION MODE	NO	NO	NO
ANTENNA IN FULL SCAN MODE	YES	YES	YES
SURVIVAL HEATER POWER	OFF	OFF	OFF
MODULE POWER	ON	ON	ON
COLD CAL POSITION MSB	ZERO	ZERO	ZERO
COLD CAL POSITION LSB	ZERO	ZERO	ZERO

ANALOG DATA

DESCRIPTION	VALUE	DEG C	VALUE	DEG C	VALUE	DEG C
RF SHELF TEMPERATURE	219	24.8	219	24.8	219	24.8
COMPENSATOR MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
SCANNER MOTOR TEMPERATURE	218	23.4	218	23.4	218	23.4
WARM LOAD TEMPERATURE	218	23.4	218	23.4	218	23.4

DESCRIPTION	VALUE	MA / VOLTS	VALUE	MA / VOLTS	VALUE	MA / VOLTS
ANTENNA DRIVE MOTOR CURRENT (AVERAGE)	108	58.97	107	58.42	107	58.42
COMPENSATOR MOTOR CURRENT (AVERAGE)	105	57.33	104	56.78	105	57.33
GNAL PROCESSING +15 VDC	172	14.91	173	15.00	173	15.00
ANTENNA DRIVE +15 VDC	178	15.30	177	15.21	178	15.30
SIGNAL PROCESSING -15 VDC	150	-14.98	150	-14.98	150	-14.98
ANTENNA DRIVE -15 VDC	155	-15.03	155	-15.03	155	-15.03
RECEIVER +8 VDC	174	9.52	174	9.52	174	9.52
RADIOMETER, RECEIVER, PROCESSOR +5 VDC	149	5.00	149	5.00	149	5.00
ANTENNA DRIVE +5 VDC	154	5.15	153	5.12	154	5.15
GUNN DIODE OSC #1 (CHANNEL 1) VDC	175	10.00	175	10.00	175	10.00
GUNN DIODE OSC #2 (CHANNEL 2) VDC	175	10.00	175	10.00	175	10.00

PRT TEMPERATURES

	NO.	DEG K	NO.	DEG K
VARIABLE TARGET	601	14.00	607	20.00
	602	15.00	608	21.00
	603	16.00	609	22.00
	604	17.00	610	23.00
	605	18.00	611	24.00
	606	19.00		
FIXED TARGET	612	39.00	618	45.00
	613	40.00	619	46.00
	614	41.00	620	47.00
	615	42.00	621	48.00
	616	43.00	622	49.00
	617	44.00		
BASEPLATE	623	25.00	625	50.00
	624	26.00	626	27.00

THERMOCOUPLE TEMPERATURES

	NO.	DEG K	NO.	DEG K
FIXED TARGET SHROUD	532	32.00	533	33.00
VARIABLE TARGET SHROUD	515	7.00	516	8.00
FIXED TARGET N2	502	30.00	503	31.00
VARIABLE TARGET N2	507	5.00	508	6.00
HEATER N2	505	1.00	506	2.00
FIXED TARGET FLOW METER	504	34.00		
VARIABLE TARGET FLOW METER	509	9.00		
BASEPLATE HEATER N2	510	3.00	511	4.00
BASEPLATE N2	512	36.00	513	37.00
BASEPLATE FLOW METER	514	35.00		
ADJUNCT RADIATORS	549	38.00	554	55.00
	542	10.00	556	57.00



AE-26156/4Q
23 Jun 98

TEST DATA SHEET 42
Instrument Feedback Tests (Paragraph 3.2.4.6)

Test Setup Verified: *Ru Arjun* 8/13/98
Signature

3.2.4.6.3.2 +28V Main Bus Instrument Feedback Tests

Subpara	Step	Test Type	Required	Measured mA Ripple	Pass/Fail
3.2.4.6.3.2	2-4	Load current ripple	See 3.2.4.6.2.1.1	Value: <u>24.4mA</u>	P

3.2.4.6.3.3 +28V Pulse Load Bus Instrument Feedback Tests

Subpara	Step	Test Type	Required	Measured	Pass/Fail
3.2.4.6.3.3	2-5	Load current ripple	See 3.2.4.6.2.2.1	Value: <u>4.72mA</u>	P

3.2.4.6.3.4 +28V Analog Telemetry Bus Instr. Feedback Tests

Subpara	Step	Test Type	Required	Measured	Pass/Fail
3.2.4.6.3.4	2-5	Load current ripple	See 3.2.4.6.2.3.1	Value: <u>< 22A</u>	P

3.2.4.6.3.5 +10V Interface Bus Instrument Feedback Tests

Subpara	Step	Test Type	Required	Measured	Pass/Fail
3.2.4.6.3.5	2-5	Load current ripple	See 3.2.4.6.2.4.1	Value: <u>< 1mA</u>	P

NOTE: Attach all backup data generated during the test (photos, printouts, plots, test logs, additional comments or observations, etc.) to this data sheet.

METSAT/AMSU A2 System CPT P/N IS-1331200

Shop Order: 484113

S/N: 105

Circle Test: (1st CPT) Final CPT Sub CPT



8/13/98

J. S. [Signature]
Customer Representative
(Flight Hardware Only)



AUG 14 98
Date

Test Systems Engineer

Date
AUG 14 98

Quality Control

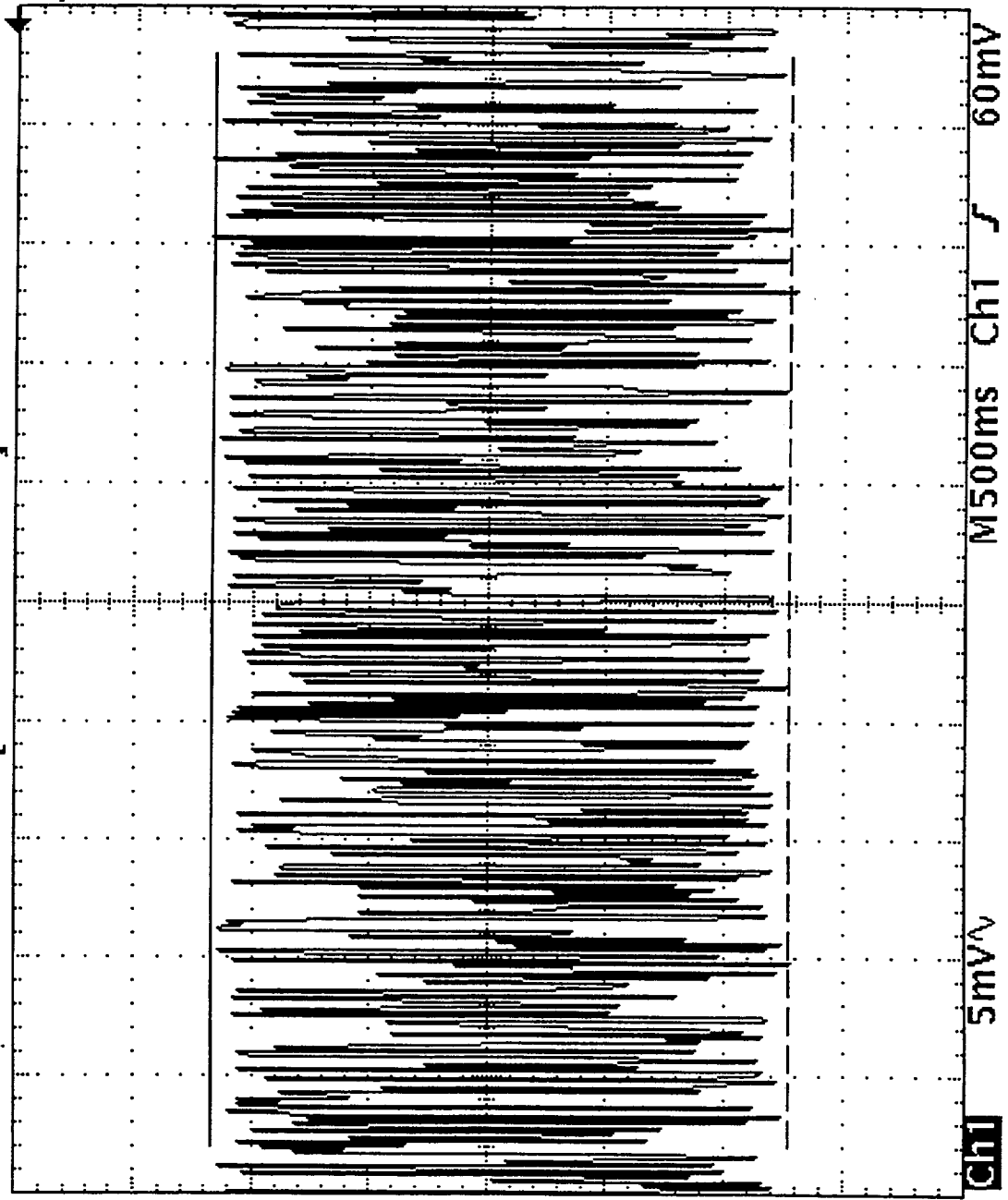
Date

7:00:15.120

MAIN LOAD BUS

Tek Stop: 100 S/s

5 Acqs



Δ : 24.4mV
@: 11.7mV

1→

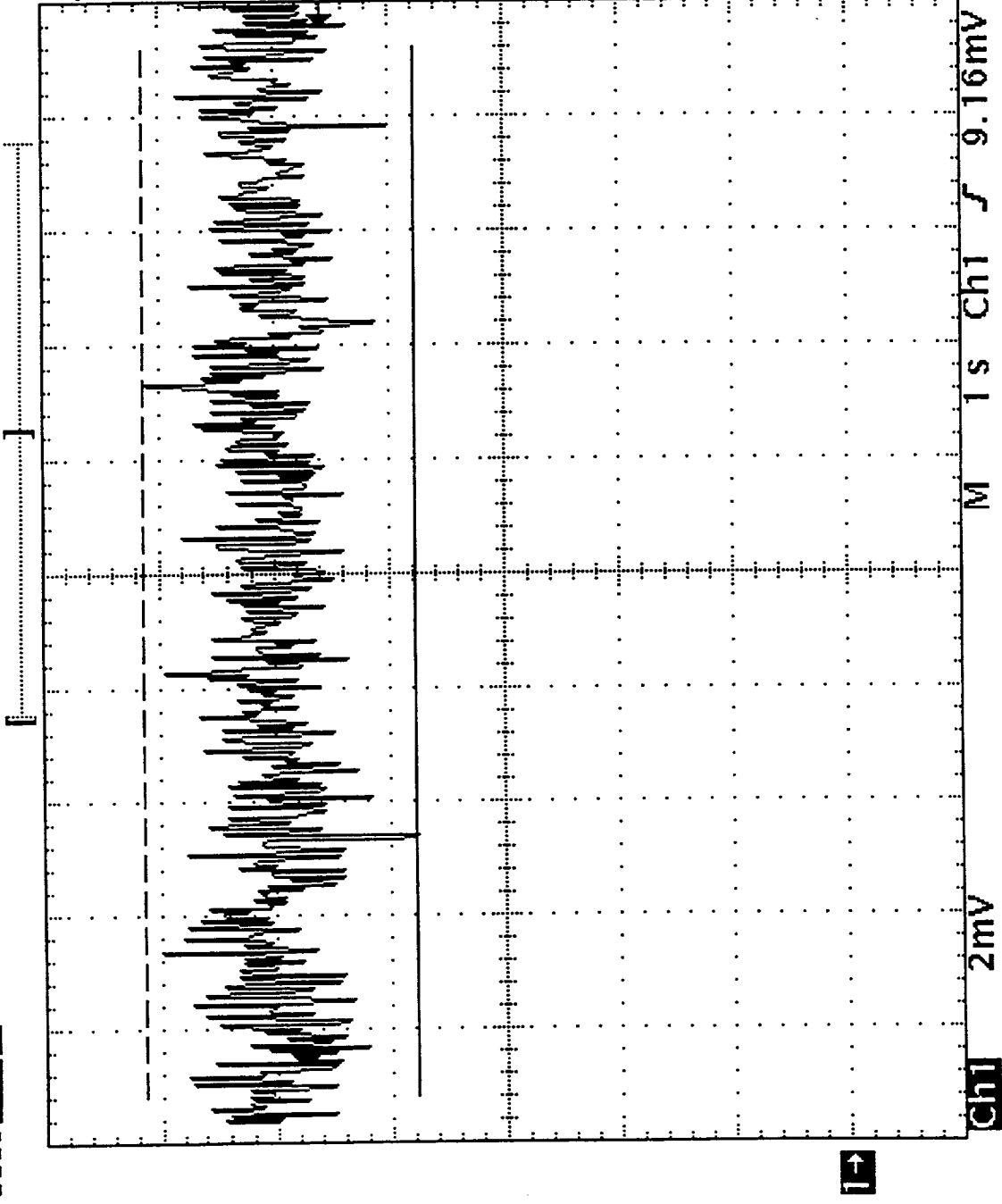
1mV = 1mA

13 Aug 1998
23:59:21

+28V PULSE LOAD BUS

Tek Stop: 50 S/s

1 Acqs



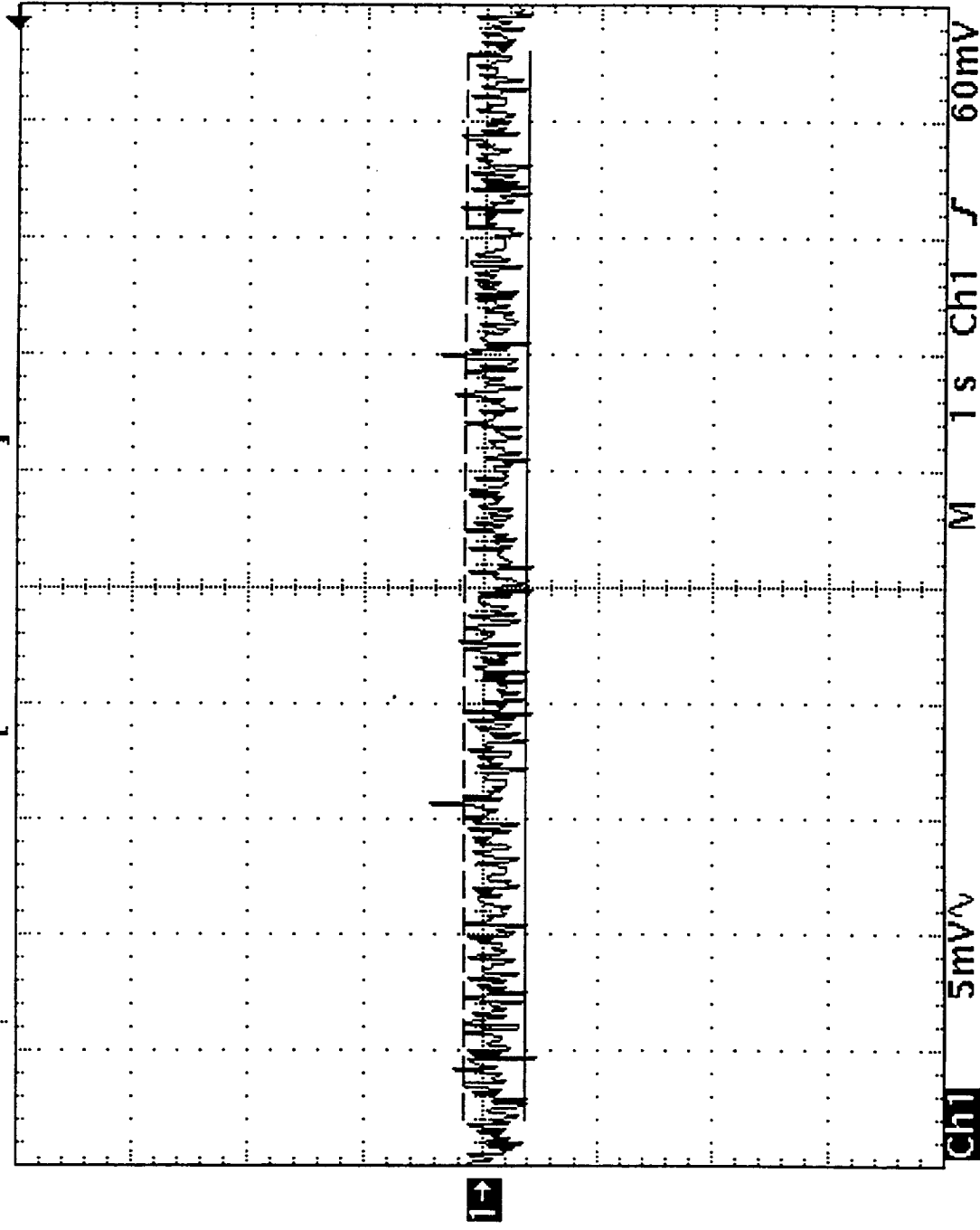
1mV = 1mA

13 Aug 1998
18:06:38

Connect Probe by Itself Test Data In Support of TDS 42
S/O 484113

Tek Stop: 50 S/s

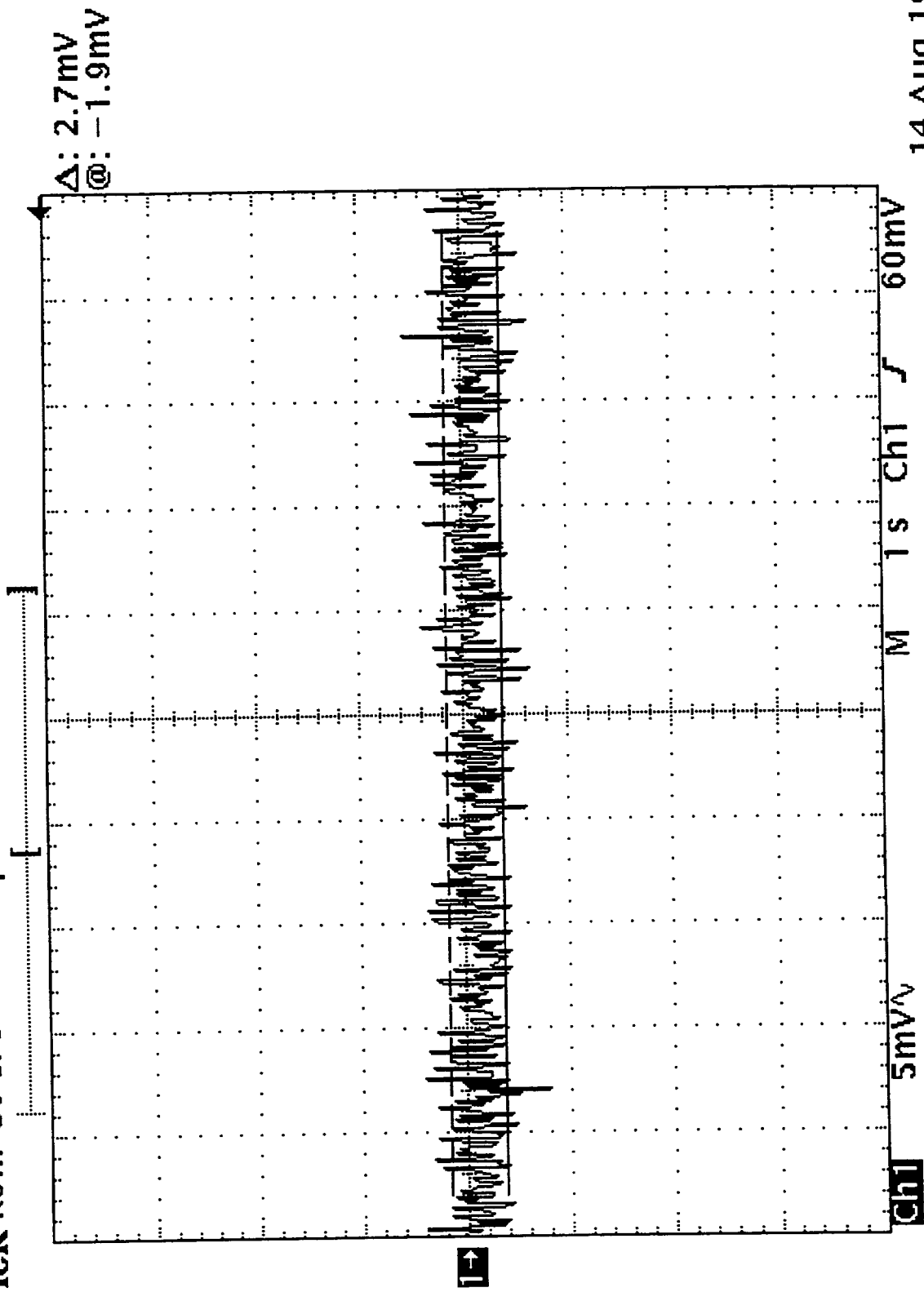
2 Acqs



14 Aug 1998
00:33:42

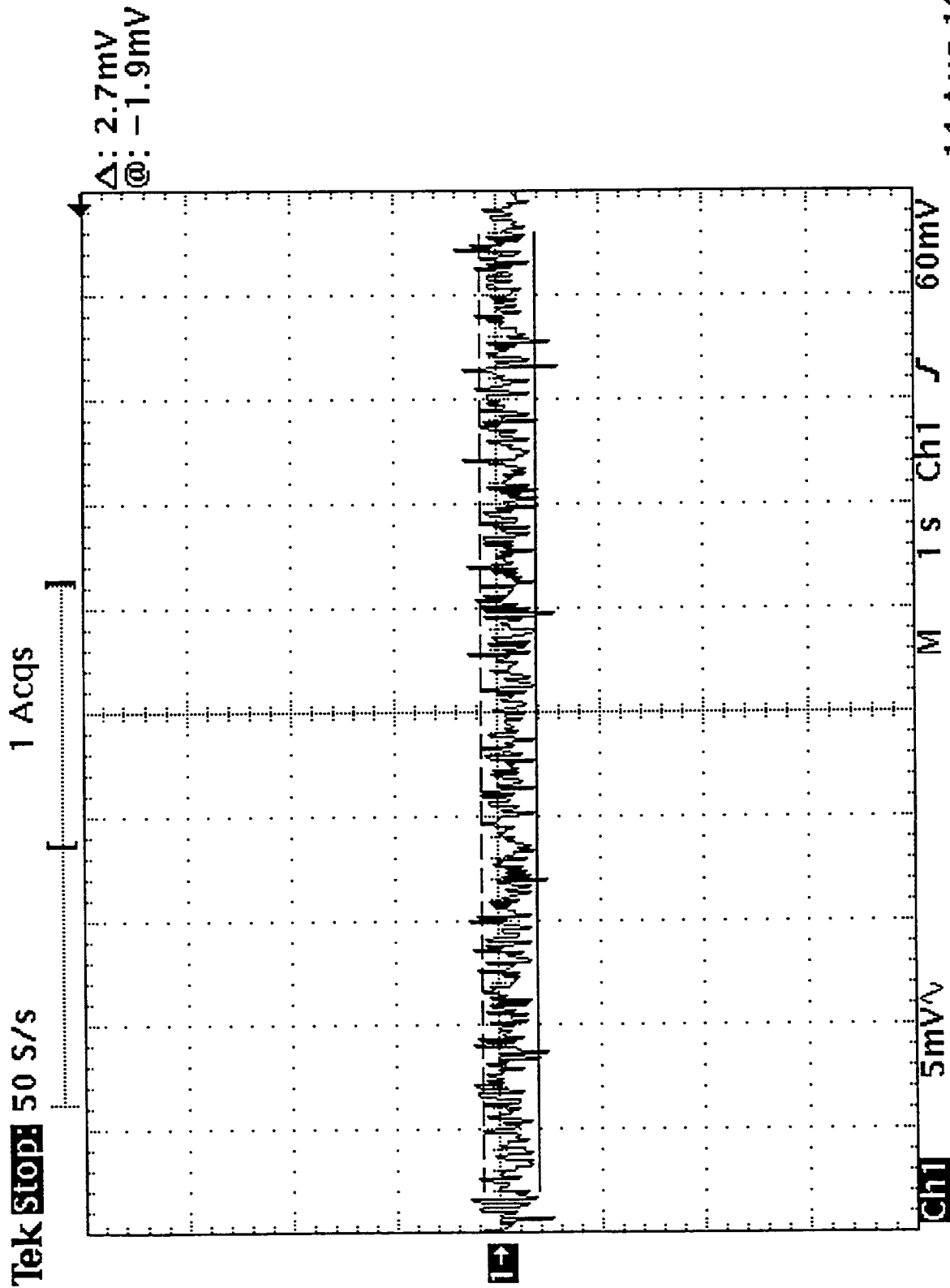
+28 V Analog Telemetry Bus Test Data In Support of TDS 42
S/O 484113

Tek Roll: 50 S/s Sample




14 Aug 1998
00:32:43

+10V Interface Bus Test Data Sheets in support of TD842
S/O 484113 1st CPT



14 Aug 1998
00:40:18

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 NASA National Aeronautics and Space Administration				Report Documentation Page			
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15. Supplementary Notes ---							
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CHECKED BY: N/A	DATE	JOB NUMBER: N/A	DATE
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